

ALMANAC XXXVIII TRANSITS VISIBLE FROM EARTH IN CE

The almanac XXXVIII contains a list of transits visible from Earth from the 1st millennium CE to the 125th millennium CE.

During the period of 250 000 years, the total number of transits visible from Earth is 43 504 transits visible from Earth (40 540 transits of Mercury, 2 964 transits of Venus).

1ST MILLENNIUM CE

This is a list of transits visible from Earth in the 1st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	4-04-15 06:14 J		1722623.65	1722623.76	1722623.86	0.2634	0.1974	
Mercury	7-10-17 07:26 J		1723903.73	1723903.81	1723903.88	0.2698	0.1836	
Mercury	17-04-18 13:55 J		1727374.93	1727375.08	1727375.23	0.2632	0.0934	
Mercury	20-10-19 00:57 J		1728654.43	1728654.54	1728654.64	0.2700	0.0466	
Mercury	33-10-21 18:14 J		1733405.16	1733405.26	1733405.37	0.2701	0.0917	
Mercury	46-10-24 11:45 J		1738155.94	1738155.99	1738156.05	0.2702	0.2269	
Mercury	50-04-16 12:43 J		1739425.90	1739426.03	1739426.17	0.2634	0.1422	
Mercury	53-10-17 12:00 J		1740705.92	1740706.00	1740706.09	0.2698	0.1554	
Venus	60-05-23 05:45 J		1743115.58	1743115.74	1743115.90	0.2620	0.0239	
Mercury	63-04-19 20:52 J		1744177.23	1744177.37	1744177.50	0.2632	0.1507	
Mercury	66-10-20 05:31 J		1745456.63	1745456.73	1745456.84	0.2700	0.0207	
Mercury	79-10-22 23:02 J		1750207.37	1750207.46	1750207.56	0.2701	0.1194	
Mercury	86-10-15 23:16 J		1752757.46	1752757.47	1752757.49	0.2697	0.2651	
Mercury	92-10-24 16:33 J		1754958.16	1754958.19	1754958.22	0.2702	0.2545	
Mercury	96-04-16 19:40 J		1756228.17	1756228.32	1756228.47	0.2634	0.0848	
Mercury	99-10-18 16:47 J		1757508.11	1757508.20	1757508.30	0.2698	0.1274	
Mercury	109-04-20 03:35 J		1760979.55	1760979.65	1760979.75	0.2632	0.2072	
Mercury	112-10-20 10:19 J		1762258.83	1762258.93	1762259.04	0.2700	0.0128	
Mercury	125-10-23 03:50 J		1767009.57	1767009.66	1767009.75	0.2701	0.1469	
Mercury	132-10-16 04:04 J		1769559.62	1769559.67	1769559.72	0.2697	0.2365	
Mercury	142-04-18 02:24 J		1773030.44	1773030.60	1773030.76	0.2634	0.0282	
Mercury	145-10-18 21:35 J		1774310.30	1774310.40	1774310.50	0.2699	0.0988	
Mercury	158-10-21 15:07 J		1779061.03	1779061.13	1779061.24	0.2700	0.0388	
Mercury	171-10-24 08:38 J		1783811.78	1783811.86	1783811.94	0.2701	0.1749	
Mercury	175-04-16 01:26 J		1785081.54	1785081.56	1785081.58	0.2635	0.2609	
Mercury	178-10-17 08:52 J		1786361.80	1786361.87	1786361.94	0.2697	0.2080	

Venus	181-11-23 01:40 J	1787494.41	1787494.57	1787494.73	0.2712	0.0311
Mercury	188-04-18 09:07 J	1789832.72	1789832.88	1789833.04	0.2633	0.0283
Mercury	191-10-20 02:24 J	1791112.50	1791112.60	1791112.71	0.2699	0.0706
Mercury	204-10-21 19:55 J	1795863.23	1795863.33	1795863.44	0.2700	0.0671
Mercury	217-10-24 13:26 J	1800613.99	1800614.06	1800614.13	0.2701	0.2026
Mercury	221-04-16 08:09 J	1801883.74	1801883.84	1801883.94	0.2635	0.2052
Mercury	224-10-17 13:40 J	1803163.99	1803164.07	1803164.15	0.2697	0.1797
Mercury	234-04-19 15:50 J	1806635.01	1806635.16	1806635.32	0.2633	0.0853
Mercury	237-10-20 07:12 J	1807914.70	1807914.80	1807914.91	0.2699	0.0421
Mercury	250-10-23 00:43 J	1812665.43	1812665.53	1812665.63	0.2700	0.0951
Mercury	263-10-25 18:14 J	1817416.21	1817416.26	1817416.31	0.2701	0.2308
Mercury	267-04-17 14:52 J	1818685.99	1818686.12	1818686.26	0.2635	0.1475
Mercury	270-10-18 18:28 J	1819966.18	1819966.27	1819966.36	0.2697	0.1516
Mercury	280-04-19 22:47 J	1823437.31	1823437.45	1823437.58	0.2633	0.1426
Mercury	283-10-21 12:00 J	1824716.89	1824717.00	1824717.11	0.2699	0.0147
Mercury	296-10-23 05:31 J	1829467.64	1829467.73	1829467.83	0.2700	0.1230
Venus	303-05-24 09:07 J	1831871.72	1831871.88	1831872.04	0.2621	0.0433
Mercury	303-10-17 05:45 J	1832017.71	1832017.74	1832017.76	0.2696	0.2614
Mercury	309-10-25 23:02 J	1834218.43	1834218.46	1834218.49	0.2701	0.2587
Mercury	313-04-17 21:35 J	1835488.25	1835488.40	1835488.55	0.2635	0.0917
Mercury	316-10-18 23:16 J	1836768.37	1836768.47	1836768.57	0.2698	0.1230
Mercury	326-04-21 05:31 J	1840239.63	1840239.73	1840239.83	0.2633	0.2010
Mercury	329-10-21 16:47 J	1841519.09	1841519.20	1841519.31	0.2699	0.0146
Mercury	342-10-24 10:19 J	1846269.84	1846269.93	1846270.02	0.2700	0.1509
Mercury	349-10-17 10:33 J	1848819.88	1848819.94	1848819.99	0.2696	0.2329
Mercury	359-04-19 04:19 J	1852290.52	1852290.68	1852290.84	0.2634	0.0354
Mercury	362-10-20 04:04 J	1853570.57	1853570.67	1853570.77	0.2698	0.0949
Mercury	372-04-21 12:14 J	1857041.98	1857042.01	1857042.04	0.2633	0.2574
Mercury	375-10-22 21:35 J	1858321.29	1858321.40	1858321.51	0.2699	0.0427
Mercury	388-10-24 15:07 J	1863072.05	1863072.13	1863072.21	0.2700	0.1790

Mercury	395-10-18 15:21 J	1865622.07	1865622.14	1865622.21	0.2696	0.2051
Mercury	405-04-19 11:02 J	1869092.80	1869092.96	1869093.12	0.2634	0.0216
Mercury	408-10-20 08:52 J	1870372.76	1870372.87	1870372.97	0.2698	0.0666
Mercury	421-10-23 02:24 J	1875123.50	1875123.60	1875123.70	0.2699	0.0708
Venus	424-11-23 00:28 J	1876250.36	1876250.52	1876250.68	0.2711	0.0030
Mercury	434-10-25 19:55 J	1879874.26	1879874.33	1879874.40	0.2700	0.2071
Mercury	438-04-17 10:19 J	1881143.83	1881143.93	1881144.02	0.2636	0.2110
Mercury	441-10-18 20:09 J	1882424.26	1882424.34	1882424.42	0.2697	0.1765
Mercury	451-04-20 17:45 J	1885895.09	1885895.24	1885895.40	0.2634	0.0787
Mercury	454-10-21 13:40 J	1887174.96	1887175.07	1887175.18	0.2698	0.0384
Mercury	467-10-24 07:12 J	1891925.70	1891925.80	1891925.90	0.2699	0.0988
Mercury	480-10-26 00:43 J	1896676.48	1896676.53	1896676.58	0.2700	0.2351
Mercury	484-04-17 16:47 J	1897946.07	1897946.20	1897946.33	0.2636	0.1556
Mercury	487-10-20 00:57 J	1899226.45	1899226.54	1899226.63	0.2697	0.1476
Mercury	497-04-21 00:43 J	1902697.39	1902697.53	1902697.67	0.2634	0.1357
Mercury	500-10-21 18:28 J	1903977.16	1903977.27	1903977.38	0.2698	0.0099
Mercury	513-10-24 12:00 J	1908727.90	1908728.00	1908728.09	0.2699	0.1267
Mercury	520-10-17 12:00 J	1911277.97	1911278.00	1911278.03	0.2695	0.2577
Mercury	526-10-27 05:16 J	1913478.70	1913478.72	1913478.75	0.2701	0.2630
Mercury	530-04-18 23:31 J	1914748.34	1914748.48	1914748.63	0.2635	0.0991
Mercury	533-10-20 05:45 J	1916028.64	1916028.74	1916028.83	0.2697	0.1191
Mercury	543-04-22 07:26 J	1919499.70	1919499.81	1919499.92	0.2634	0.1922
Venus	546-05-24 12:28 J	1920627.87	1920628.02	1920628.18	0.2622	0.0644
Mercury	546-10-22 23:16 J	1920779.36	1920779.47	1920779.58	0.2698	0.0187
Venus	554-05-22 06:00 J	1923547.73	1923547.75	1923547.76	0.2622	0.2600
Mercury	559-10-25 16:47 J	1925530.11	1925530.20	1925530.28	0.2700	0.1554
Mercury	566-10-18 16:47 J	1928080.15	1928080.20	1928080.26	0.2695	0.2296
Mercury	576-04-19 06:14 J	1931550.61	1931550.76	1931550.92	0.2635	0.0431
Mercury	579-10-21 10:33 J	1932830.84	1932830.94	1932831.04	0.2697	0.0911
Mercury	589-04-22 14:09 J	1936302.04	1936302.09	1936302.14	0.2634	0.2501

Mercury	592-10-23 04:04 J	1937581.56	1937581.67	1937581.77	0.2698	0.0471
Mercury	605-10-25 21:35 J	1942332.32	1942332.40	1942332.47	0.2700	0.1834
Mercury	612-10-18 21:35 J	1944882.33	1944882.40	1944882.47	0.2696	0.2009
Mercury	622-04-20 13:12 J	1948352.89	1948353.05	1948353.21	0.2635	0.0154
Mercury	625-10-21 15:21 J	1949633.03	1949633.14	1949633.24	0.2697	0.0629
Mercury	638-10-24 08:52 J	1954383.76	1954383.87	1954383.97	0.2698	0.0752
Mercury	651-10-27 02:24 J	1959134.53	1959134.60	1959134.66	0.2700	0.2116
Mercury	655-04-18 12:14 J	1960403.92	1960404.01	1960404.10	0.2637	0.2176
Mercury	658-10-20 02:24 J	1961684.52	1961684.60	1961684.69	0.2696	0.1724
Venus	667-11-23 23:16 J	1965006.31	1965006.47	1965006.63	0.2711	0.0285
Mercury	668-04-20 19:55 J	1965155.18	1965155.33	1965155.49	0.2635	0.0720
Mercury	671-10-22 20:09 J	1966435.23	1966435.34	1966435.44	0.2697	0.0349
Mercury	684-10-24 13:40 J	1971185.97	1971186.07	1971186.17	0.2698	0.1033
Mercury	697-10-27 07:12 J	1975936.75	1975936.80	1975936.84	0.2700	0.2394
Mercury	701-04-18 18:57 J	1977206.17	1977206.29	1977206.42	0.2636	0.1612
Mercury	704-10-20 07:12 J	1978486.71	1978486.80	1978486.90	0.2696	0.1440
Mercury	714-04-22 02:38 J	1981957.47	1981957.61	1981957.75	0.2635	0.1288
Mercury	717-10-23 00:57 J	1983237.43	1983237.54	1983237.64	0.2697	0.0112
Mercury	730-10-25 18:28 J	1987988.17	1987988.27	1987988.36	0.2699	0.1320
Mercury	737-10-18 18:28 J	1990538.24	1990538.27	1990538.30	0.2695	0.2540
Mercury	743-10-28 11:45 J	1992738.98	1992738.99	1992739.01	0.2700	0.2675
Mercury	747-04-20 01:40 J	1994008.42	1994008.57	1994008.72	0.2636	0.1055
Mercury	750-10-21 12:00 J	1995288.91	1995289.00	1995289.10	0.2696	0.1158
Mercury	760-04-22 09:21 J	1998759.78	1998759.89	1998760.01	0.2635	0.1861
Mercury	763-10-24 05:45 J	2000039.63	2000039.74	2000039.84	0.2697	0.0255
Mercury	776-10-25 23:16 J	2004790.38	2004790.47	2004790.55	0.2699	0.1598
Mercury	783-10-19 23:16 J	2007340.41	2007340.47	2007340.53	0.2695	0.2252
Venus	789-05-24 16:04 J	2009384.02	2009384.17	2009384.32	0.2622	0.0849
Mercury	793-04-20 08:24 J	2010810.69	2010810.85	2010811.01	0.2636	0.0488
Mercury	796-10-21 16:47 J	2012091.10	2012091.20	2012091.31	0.2696	0.0872

Venus	797-05-22 09:07 J	2012303.82	2012303.88	2012303.94	0.2623	0.2413
Mercury	806-04-23 16:04 J	2015562.11	2015562.17	2015562.23	0.2634	0.2430
Mercury	809-10-24 10:19 J	2016841.83	2016841.93	2016842.04	0.2698	0.0518
Mercury	822-10-27 03:50 J	2021592.59	2021592.66	2021592.74	0.2699	0.1877
Mercury	829-10-20 04:04 J	2024142.60	2024142.67	2024142.74	0.2695	0.1965
Mercury	839-04-21 15:07 J	2027612.97	2027613.13	2027613.29	0.2636	0.0080
Mercury	842-10-22 21:35 J	2028893.30	2028893.40	2028893.51	0.2696	0.0586
Mercury	855-10-25 15:07 J	2033644.03	2033644.13	2033644.24	0.2698	0.0799
Mercury	868-10-27 08:38 J	2038394.80	2038394.86	2038394.93	0.2699	0.2157
Mercury	872-04-18 14:24 J	2039664.02	2039664.10	2039664.18	0.2638	0.2231
Mercury	875-10-21 08:52 J	2040944.79	2040944.87	2040944.95	0.2695	0.1680
Mercury	885-04-21 21:50 J	2044415.26	2044415.41	2044415.57	0.2636	0.0651
Mercury	888-10-23 02:24 J	2045695.50	2045695.60	2045695.71	0.2696	0.0308
Mercury	901-10-25 19:55 J	2050446.24	2050446.33	2050446.43	0.2698	0.1084
Venus	910-11-23 21:50 J	2053762.26	2053762.41	2053762.57	0.2710	0.0587
Mercury	914-10-28 13:26 J	2055197.02	2055197.06	2055197.11	0.2699	0.2440
Mercury	918-04-19 21:07 J	2056466.26	2056466.38	2056466.50	0.2637	0.1674
Mercury	921-10-21 13:40 J	2057746.98	2057747.07	2057747.16	0.2695	0.1398
Mercury	931-04-23 04:47 J	2061217.55	2061217.70	2061217.84	0.2636	0.1225
Mercury	934-10-24 07:12 J	2062497.69	2062497.80	2062497.91	0.2696	0.0073
Mercury	947-10-27 00:43 J	2067248.44	2067248.53	2067248.63	0.2698	0.1365
Mercury	954-10-20 00:57 J	2069798.50	2069798.54	2069798.57	0.2694	0.2501
Mercury	964-04-20 03:50 J	2073268.51	2073268.66	2073268.81	0.2637	0.1108
Mercury	967-10-22 18:28 J	2074549.17	2074549.27	2074549.37	0.2695	0.1110
Mercury	977-04-23 11:31 J	2078019.86	2078019.98	2078020.09	0.2635	0.1794
Mercury	980-10-24 12:00 J	2079299.90	2079300.00	2079300.11	0.2697	0.0281
Mercury	993-10-27 05:31 J	2084050.65	2084050.73	2084050.82	0.2698	0.1640
Mercury	1000-10-20 05:45 J	2086600.68	2086600.74	2086600.80	0.2694	0.2215

2ND MILLENNIUM CE

This is a list of transits visible from Earth in the 2nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	1010-04-21 10:33 J		2090070.78	2090070.94	2090071.10	0.2637	0.0547	
Mercury	1013-10-22 23:16 J		2091351.37	2091351.47	2091351.57	0.2695	0.0825	
Mercury	1023-04-24 18:14 J		2094822.19	2094822.26	2094822.33	0.2635	0.2368	
Mercury	1026-10-25 16:47 J		2096102.10	2096102.20	2096102.31	0.2697	0.0558	
Venus	1032-05-24 19:26 J		2098140.16	2098140.31	2098140.45	0.2623	0.1032	
Mercury	1039-10-28 10:19 J		2100852.86	2100852.93	2100853.01	0.2698	0.1919	
Venus	1040-05-22 12:43 J		2101059.95	2101060.03	2101060.11	0.2624	0.2205	
Mercury	1046-10-21 10:33 J		2103402.86	2103402.94	2103403.01	0.2694	0.1930	
Mercury	1056-04-21 17:16 J		2106873.06	2106873.22	2106873.38	0.2637	0.0027	
Mercury	1059-10-24 04:04 J		2108153.56	2108153.67	2108153.78	0.2695	0.0541	
Mercury	1072-10-25 21:35 J		2112904.30	2112904.40	2112904.51	0.2697	0.0837	
Mercury	1085-10-28 15:07 J		2117655.07	2117655.13	2117655.19	0.2698	0.2202	
Mercury	1089-04-19 16:19 J		2118924.11	2118924.18	2118924.26	0.2638	0.2302	
Mercury	1092-10-21 15:21 J		2120205.05	2120205.14	2120205.22	0.2694	0.1643	
Mercury	1102-04-23 00:00 J		2123675.34	2123675.50	2123675.65	0.2637	0.0582	
Mercury	1105-10-24 08:52 J		2124955.76	2124955.87	2124955.98	0.2696	0.0257	
Mercury	1118-10-27 02:24 J		2129706.50	2129706.60	2129706.70	0.2697	0.1120	
Mercury	1131-10-29 19:55 J		2134457.29	2134457.33	2134457.37	0.2698	0.2479	
Mercury	1135-04-20 23:16 J		2135726.35	2135726.47	2135726.59	0.2638	0.1735	
Mercury	1138-10-22 20:09 J		2137007.24	2137007.34	2137007.43	0.2694	0.1356	

Mercury	1148-04-23 06:43 J	2140477.63	2140477.78	2140477.92	0.2636	0.1145
Mercury	1151-10-25 13:40 J	2141757.96	2141758.07	2141758.18	0.2696	0.0037
Venus	1153-11-23 20:52 J	2142518.22	2142518.37	2142518.52	0.2709	0.0862
Mercury	1164-10-27 07:11 J	2146508.71	2146508.80	2146508.89	0.2697	0.1399
Mercury	1171-10-21 07:11 J	2149058.76	2149058.80	2149058.84	0.2693	0.2459
Mercury	1181-04-21 05:45 J	2152528.60	2152528.74	2152528.89	0.2638	0.1178
Mercury	1184-10-23 00:57 J	2153809.44	2153809.54	2153809.64	0.2694	0.1067
Mercury	1194-04-24 13:26 J	2157279.94	2157280.06	2157280.18	0.2636	0.1722
Mercury	1197-10-25 18:28 J	2158560.16	2158560.27	2158560.38	0.2696	0.0315
Mercury	1210-10-28 12:00 J	2163310.92	2163311.00	2163311.08	0.2697	0.1685
Mercury	1217-10-21 12:00 J	2165860.94	2165861.00	2165861.06	0.2693	0.2172
Mercury	1227-04-22 12:43 J	2169330.87	2169331.03	2169331.18	0.2638	0.0611
Mercury	1230-10-24 05:45 J	2170611.63	2170611.74	2170611.84	0.2694	0.0783
Mercury	1240-04-24 20:09 J	2174082.26	2174082.34	2174082.42	0.2636	0.2291
Mercury	1243-10-26 23:16 J	2175362.36	2175362.47	2175362.58	0.2696	0.0598
Mercury	1256-10-28 16:48 J	2180113.13	2180113.20	2180113.27	0.2697	0.1968
Mercury	1263-10-22 16:48 J	2182663.13	2182663.20	2182663.28	0.2693	0.1885
Mercury	1273-04-22 19:11 J	2186133.14	2186133.30	2186133.46	0.2638	0.0058
Venus	1275-05-25 22:48 J	2186896.31	2186896.45	2186896.59	0.2624	0.1231
Mercury	1276-10-24 10:33 J	2187413.83	2187413.94	2187414.04	0.2695	0.0504
Venus	1283-05-23 15:50 J	2189816.06	2189816.16	2189816.26	0.2624	0.2044
Mercury	1289-10-27 04:04 J	2192164.57	2192164.67	2192164.77	0.2696	0.0881
Mercury	1302-10-29 21:35 J	2196915.34	2196915.40	2196915.46	0.2697	0.2248
Mercury	1306-04-20 18:43 J	2198184.21	2198184.28	2198184.35	0.2639	0.2348
Mercury	1309-10-22 21:35 J	2199465.32	2199465.40	2199465.49	0.2693	0.1602
Mercury	1319-04-24 01:55 J	2202935.42	2202935.58	2202935.74	0.2637	0.0514
Mercury	1322-10-25 15:21 J	2204216.03	2204216.14	2204216.24	0.2695	0.0228
Mercury	1335-10-28 08:52 J	2208966.77	2208966.87	2208966.96	0.2696	0.1164
Mercury	1348-10-30 02:24 J	2213717.56	2213717.60	2213717.63	0.2697	0.2528
Mercury	1352-04-21 01:11 J	2214986.44	2214986.55	2214986.67	0.2639	0.1803

Mercury	1355-10-24 02:24 J	2216267.51	2216267.60	2216267.70	0.2693	0.1314
Mercury	1365-04-24 08:38 J	2219737.72	2219737.86	2219738.01	0.2637	0.1085
Mercury	1368-10-25 20:09 J	2221018.23	2221018.34	2221018.44	0.2695	0.0118
Mercury	1381-10-28 13:40 J	2225768.98	2225769.07	2225769.16	0.2696	0.1448
Mercury	1388-10-21 13:40 J	2228319.02	2228319.07	2228319.11	0.2692	0.2417
Venus	1396-11-23 19:26 J	2231274.17	2231274.31	2231274.45	0.2708	0.1186
Mercury	1398-04-22 07:55 J	2231788.69	2231788.83	2231788.97	0.2639	0.1240
Mercury	1401-10-24 07:11 J	2233069.70	2233069.80	2233069.90	0.2694	0.1028
Mercury	1411-04-25 15:21 J	2236540.02	2236540.14	2236540.27	0.2637	0.1647
Mercury	1414-10-27 00:57 J	2237820.43	2237820.54	2237820.64	0.2695	0.0370
Mercury	1427-10-29 18:28 J	2242571.19	2242571.27	2242571.35	0.2696	0.1731
Mercury	1434-10-22 18:28 J	2245121.20	2245121.27	2245121.33	0.2692	0.2130
Mercury	1444-04-22 14:38 J	2248590.95	2248591.11	2248591.26	0.2639	0.0690
Mercury	1447-10-25 12:00 J	2249871.90	2249872.00	2249872.11	0.2694	0.0741
Mercury	1457-04-25 22:04 J	2253342.34	2253342.42	2253342.51	0.2637	0.2219
Mercury	1460-10-27 05:45 J	2254622.63	2254622.74	2254622.84	0.2695	0.0652
Mercury	1473-10-29 23:16 J	2259373.40	2259373.47	2259373.54	0.2697	0.2014
Mercury	1480-10-22 23:16 J	2261923.39	2261923.47	2261923.55	0.2692	0.1843
Mercury	1490-04-23 21:21 J	2265393.23	2265393.39	2265393.55	0.2639	0.0115
Mercury	1493-10-25 16:48 J	2266674.10	2266674.20	2266674.31	0.2694	0.0458
Mercury	1506-10-28 10:33 J	2271424.83	2271424.94	2271425.04	0.2695	0.0934
Venus	1518-05-26 01:55 J	2275652.45	2275652.58	2275652.71	0.2624	0.1398
Mercury	1519-10-31 04:04 J	2276175.61	2276175.67	2276175.72	0.2697	0.2295
Mercury	1523-04-21 20:38 J	2277444.30	2277444.36	2277444.43	0.2640	0.2413
Venus	1526-05-23 19:11 J	2278572.19	2278572.30	2278572.41	0.2625	0.1858
Mercury	1526-10-24 04:04 J	2278725.58	2278725.67	2278725.76	0.2692	0.1556
Mercury	1536-04-24 04:04 J	2282195.51	2282195.67	2282195.83	0.2639	0.0452
Mercury	1539-10-26 21:35 J	2283476.29	2283476.40	2283476.51	0.2694	0.0176
Mercury	1552-10-28 15:21 J	2288227.04	2288227.14	2288227.23	0.2695	0.1214
Mercury	1559-10-22 15:07 J	2290777.12	2290777.13	2290777.14	0.2691	0.2666

Mercury	1565-10-31 08:52 J	2292977.84	2292977.87	2292977.89	0.2697	0.2578
Mercury	1569-04-22 03:21 J	2294246.53	2294246.64	2294246.75	0.2640	0.1856
Mercury	1572-10-24 08:52 J	2295527.77	2295527.87	2295527.96	0.2693	0.1270
Mercury	1582-04-25 10:48 J	2298997.80	2298997.95	2298998.10	0.2638	0.1017
Mercury	1585-11-06 02:24 G	2300278.49	2300278.60	2300278.71	0.2694	0.0132
Mercury	1598-11-08 20:09 G	2305029.25	2305029.34	2305029.43	0.2695	0.1499
Mercury	1605-11-01 19:55 G	2307579.28	2307579.33	2307579.38	0.2691	0.2381
Mercury	1615-05-03 10:04 G	2311048.78	2311048.92	2311049.06	0.2640	0.1306
Mercury	1618-11-04 13:40 G	2312329.97	2312330.07	2312330.17	0.2693	0.0985
Mercury	1628-05-05 17:31 G	2315800.10	2315800.23	2315800.35	0.2638	0.1582
Mercury	1631-11-07 07:11 G	2317080.69	2317080.80	2317080.91	0.2694	0.0408
Venus	1631-12-07 05:16 G	2317110.68	2317110.72	2317110.76	0.2708	0.2603
Venus	1639-12-04 18:14 G	2320030.13	2320030.26	2320030.40	0.2708	0.1463
Mercury	1644-11-09 00:57 G	2321831.46	2321831.54	2321831.62	0.2696	0.1781
Mercury	1651-11-03 00:43 G	2324381.47	2324381.53	2324381.60	0.2691	0.2089
Mercury	1661-05-03 16:48 G	2327851.05	2327851.20	2327851.35	0.2640	0.0736
Mercury	1664-11-04 18:28 G	2329132.16	2329132.27	2329132.37	0.2693	0.0700
Mercury	1674-05-07 00:14 G	2332602.42	2332602.51	2332602.60	0.2638	0.2150
Mercury	1677-11-07 12:00 G	2333882.90	2333883.00	2333883.11	0.2694	0.0692
Mercury	1690-11-10 05:31 G	2338633.67	2338633.73	2338633.80	0.2696	0.2061
Mercury	1697-11-03 05:31 G	2341183.65	2341183.73	2341183.81	0.2692	0.1801
Mercury	1707-05-05 23:31 G	2344653.32	2344653.48	2344653.63	0.2640	0.0196
Mercury	1710-11-06 23:16 G	2345934.36	2345934.47	2345934.58	0.2693	0.0407
Mercury	1723-11-09 16:48 G	2350685.10	2350685.20	2350685.30	0.2694	0.0973
Mercury	1736-11-11 10:19 G	2355435.88	2355435.93	2355435.98	0.2696	0.2340
Mercury	1740-05-02 22:48 G	2356704.40	2356704.45	2356704.51	0.2641	0.2475
Mercury	1743-11-05 10:19 G	2357985.84	2357985.93	2357986.02	0.2692	0.1511
Mercury	1753-05-06 06:00 G	2361455.60	2361455.75	2361455.91	0.2639	0.0386
Mercury	1756-11-07 04:04 G	2362736.56	2362736.67	2362736.78	0.2693	0.0122
Venus	1761-06-06 05:16 G	2364408.59	2364408.72	2364408.84	0.2625	0.1579

Venus	1769-06-03 22:19 G	2367328.31	2367328.43	2367328.55	0.2626	0.1699
Mercury	1769-11-09 21:35 G	2367487.31	2367487.40	2367487.50	0.2695	0.1260
Mercury	1776-11-02 21:35 G	2370037.38	2370037.40	2370037.42	0.2690	0.2626
Mercury	1782-11-12 15:07 G	2372238.11	2372238.13	2372238.15	0.2696	0.2622
Mercury	1786-05-04 05:31 G	2373506.62	2373506.73	2373506.84	0.2641	0.1919
Mercury	1789-11-05 15:07 G	2374788.04	2374788.13	2374788.23	0.2692	0.1227
Mercury	1799-05-07 12:43 G	2378257.88	2378258.03	2378258.18	0.2639	0.0939
Mercury	1802-11-09 08:52 G	2379538.76	2379538.87	2379538.98	0.2693	0.0167
Mercury	1815-11-12 02:24 G	2384289.51	2384289.60	2384289.69	0.2695	0.1543
Mercury	1822-11-05 02:24 G	2386839.54	2386839.60	2386839.65	0.2690	0.2335
Mercury	1832-05-05 12:14 G	2390308.88	2390309.01	2390309.15	0.2641	0.1352
Mercury	1835-11-07 19:55 G	2391590.23	2391590.33	2391590.44	0.2692	0.0942
Mercury	1845-05-08 19:26 G	2395060.18	2395060.31	2395060.44	0.2639	0.1516
Mercury	1848-11-09 13:40 G	2396340.96	2396341.07	2396341.18	0.2693	0.0450
Mercury	1861-11-12 07:11 G	2401091.72	2401091.80	2401091.88	0.2695	0.1825
Mercury	1868-11-05 07:11 G	2403641.73	2403641.80	2403641.87	0.2690	0.2046
Venus	1874-12-09 04:04 G	2405866.59	2405866.67	2405866.75	0.2707	0.2299
Mercury	1878-05-06 18:57 G	2407111.14	2407111.29	2407111.44	0.2641	0.0804
Mercury	1881-11-08 00:43 G	2408392.43	2408392.53	2408392.64	0.2692	0.0658
Venus	1882-12-06 17:02 G	2408786.09	2408786.21	2408786.33	0.2706	0.1777
Mercury	1891-05-10 02:09 G	2411862.50	2411862.59	2411862.69	0.2639	0.2089
Mercury	1894-11-10 18:28 G	2413143.17	2413143.27	2413143.37	0.2693	0.0737
Mercury	1907-11-14 12:00 G	2417893.93	2417894.00	2417894.07	0.2695	0.2105
Mercury	1914-11-07 12:00 G	2420443.92	2420444.00	2420444.08	0.2691	0.1756
Mercury	1924-05-08 01:40 G	2423913.41	2423913.57	2423913.72	0.2640	0.0250
Mercury	1927-11-10 05:45 G	2425194.63	2425194.74	2425194.84	0.2692	0.0375
Mercury	1940-11-11 23:16 G	2429945.37	2429945.47	2429945.57	0.2694	0.1021
Mercury	1953-11-14 16:48 G	2434696.15	2434696.20	2434696.25	0.2695	0.2391
Mercury	1957-05-06 01:11 G	2435964.50	2435964.55	2435964.59	0.2642	0.2525
Mercury	1960-11-07 16:48 G	2437246.11	2437246.20	2437246.29	0.2691	0.1469

Mercury	1970-05-09 08:09 G	2440715.68	2440715.84	2440716.00	0.2640	0.0312
Mercury	1973-11-10 10:19 G	2441996.83	2441996.93	2441997.04	0.2692	0.0138
Mercury	1986-11-13 04:04 G	2446747.57	2446747.67	2446747.76	0.2694	0.1306
Mercury	1993-11-06 03:50 G	2449297.63	2449297.66	2449297.69	0.2689	0.2577
Mercury	1999-11-15 21:35 G	2451498.39	2451498.40	2451498.41	0.2695	0.2672

3RD MILLENNIUM CE

This is a list of transits visible from Earth in the 3rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	2003-05-07 07:40 G		2452766.72	2452766.82	2452766.93	0.2642	0.1973	
Venus	2004-06-08 08:09 G		2453164.73	2453164.84	2453164.96	0.2626	0.1736	
Mercury	2006-11-08 21:35 G		2454048.30	2454048.40	2454048.50	0.2691	0.1177	
Venus	2012-06-06 01:26 G		2456084.43	2456084.56	2456084.69	0.2627	0.1546	
Mercury	2016-05-09 14:52 G		2457517.97	2457518.12	2457518.27	0.2640	0.0880	
Mercury	2019-11-11 15:07 G		2458799.03	2458799.13	2458799.24	0.2692	0.0238	
Mercury	2032-11-13 08:52 G		2463549.78	2463549.87	2463549.95	0.2694	0.1588	
Mercury	2039-11-07 08:38 G		2466099.81	2466099.86	2466099.92	0.2689	0.2287	
Mercury	2049-05-07 14:24 G		2469568.96	2469569.10	2469569.23	0.2642	0.1427	
Mercury	2052-11-09 02:24 G		2470850.50	2470850.60	2470850.70	0.2691	0.0888	
Mercury	2062-05-10 21:35 G		2474320.26	2474320.40	2474320.53	0.2640	0.1442	
Mercury	2065-11-11 19:55 G		2475601.23	2475601.33	2475601.44	0.2693	0.0510	
Mercury	2078-11-14 13:40 G		2480351.99	2480352.07	2480352.14	0.2694	0.1871	
Mercury	2085-11-07 13:26 G		2482901.99	2482902.06	2482902.13	0.2690	0.2000	

Mercury	2095-05-08 21:07 G	2486371.23	2486371.38	2486371.53	0.2642	0.0867
Mercury	2098-11-10 07:11 G	2487652.69	2487652.80	2487652.91	0.2691	0.0599
Mercury	2108-05-12 04:19 G	2491122.57	2491122.68	2491122.78	0.2640	0.2010
Mercury	2111-11-14 00:43 G	2492403.43	2492403.53	2492403.64	0.2693	0.0793
Venus	2117-12-11 02:38 G	2494622.51	2494622.61	2494622.72	0.2706	0.2005
Mercury	2124-11-15 18:28 G	2497154.21	2497154.27	2497154.33	0.2694	0.2161
Venus	2125-12-08 16:04 G	2497542.06	2497542.17	2497542.27	0.2706	0.2053
Mercury	2131-11-09 18:14 G	2499704.18	2499704.26	2499704.35	0.2690	0.1712
Mercury	2141-05-10 03:35 G	2503173.50	2503173.65	2503173.81	0.2641	0.0310
Mercury	2144-11-11 12:00 G	2504454.89	2504455.00	2504455.11	0.2691	0.0316
Mercury	2154-05-13 11:02 G	2507924.93	2507924.96	2507924.99	0.2640	0.2581
Mercury	2157-11-14 05:31 G	2509205.64	2509205.73	2509205.83	0.2693	0.1078
Mercury	2170-11-16 23:16 G	2513956.43	2513956.47	2513956.51	0.2694	0.2443
Mercury	2174-05-08 03:21 G	2515224.61	2515224.64	2515224.67	0.2643	0.2572
Mercury	2177-11-09 23:02 G	2516506.37	2516506.46	2516506.56	0.2690	0.1422
Mercury	2187-05-11 10:19 G	2519975.77	2519975.93	2519976.09	0.2641	0.0267
Mercury	2190-11-12 16:48 G	2521257.09	2521257.20	2521257.31	0.2691	0.0028
Mercury	2203-11-16 10:33 G	2526007.84	2526007.94	2526008.03	0.2693	0.1359
Mercury	2210-11-09 10:19 G	2528557.89	2528557.93	2528557.96	0.2688	0.2535
Mercury	2220-05-09 09:50 G	2532026.82	2532026.91	2532027.01	0.2643	0.2030
Mercury	2223-11-12 03:50 G	2533308.57	2533308.66	2533308.76	0.2690	0.1137
Mercury	2233-05-12 17:02 G	2536778.06	2536778.21	2536778.36	0.2641	0.0818
Mercury	2236-11-13 21:35 G	2538059.29	2538059.40	2538059.51	0.2692	0.0263
Venus	2247-06-11 11:31 G	2541920.88	2541920.98	2541921.09	0.2627	0.1915
Mercury	2249-11-16 15:21 G	2542810.05	2542810.14	2542810.22	0.2693	0.1644
Venus	2255-06-09 04:48 G	2544840.56	2544840.70	2544840.83	0.2628	0.1374
Mercury	2256-11-09 15:07 G	2545360.07	2545360.13	2545360.18	0.2689	0.2247
Mercury	2266-05-10 16:33 G	2548829.06	2548829.19	2548829.32	0.2643	0.1476
Mercury	2269-11-12 08:38 G	2550110.76	2550110.86	2550110.97	0.2690	0.0850
Mercury	2279-05-13 23:45 G	2553580.35	2553580.49	2553580.62	0.2641	0.1384

Mercury	2282-11-15 02:24 G	2554861.49	2554861.60	2554861.71	0.2692	0.0548
Mercury	2295-11-17 20:09 G	2559612.26	2559612.34	2559612.41	0.2693	0.1930
Mercury	2302-11-11 19:55 G	2562162.25	2562162.33	2562162.40	0.2689	0.1954
Mercury	2312-05-11 23:16 G	2565631.32	2565631.47	2565631.61	0.2642	0.0927
Mercury	2315-11-14 13:26 G	2566912.96	2566913.06	2566913.17	0.2690	0.0567
Mercury	2325-05-15 06:14 G	2570382.66	2570382.76	2570382.87	0.2641	0.1945
Mercury	2328-11-16 07:11 G	2571663.70	2571663.80	2571663.91	0.2692	0.0835
Mercury	2341-11-19 00:57 G	2576414.48	2576414.54	2576414.60	0.2693	0.2212
Mercury	2348-11-12 00:43 G	2578964.44	2578964.53	2578964.61	0.2689	0.1661
Mercury	2358-05-13 05:45 G	2582433.59	2582433.74	2582433.90	0.2642	0.0372
Venus	2360-12-13 01:55 G	2583378.46	2583378.58	2583378.70	0.2705	0.1731
Mercury	2361-11-14 18:28 G	2583715.16	2583715.27	2583715.37	0.2691	0.0281
Venus	2368-12-10 14:52 G	2586298.04	2586298.12	2586298.20	0.2704	0.2330
Mercury	2371-05-16 12:57 G	2587185.00	2587185.04	2587185.09	0.2640	0.2512
Mercury	2374-11-17 12:00 G	2588465.90	2588466.00	2588466.10	0.2692	0.1123
Mercury	2387-11-20 05:31 G	2593216.70	2593216.73	2593216.77	0.2693	0.2494
Mercury	2391-05-11 05:31 G	2594484.72	2594484.73	2594484.75	0.2644	0.2628
Mercury	2394-11-13 05:31 G	2595766.64	2595766.73	2595766.82	0.2689	0.1370
Mercury	2404-05-13 12:28 G	2599235.86	2599236.02	2599236.18	0.2642	0.0194
Mercury	2407-11-15 23:16 G	2600517.36	2600517.47	2600517.58	0.2691	0.0065
Mercury	2420-11-17 16:48 G	2605268.11	2605268.20	2605268.29	0.2692	0.1412
Mercury	2427-11-11 16:33 G	2607818.15	2607818.19	2607818.23	0.2688	0.2488
Mercury	2437-05-11 12:14 G	2611286.92	2611287.01	2611287.11	0.2644	0.2073
Mercury	2440-11-13 10:19 G	2612568.83	2612568.93	2612569.03	0.2689	0.1081
Mercury	2450-05-14 19:11 G	2616038.15	2616038.30	2616038.45	0.2642	0.0760
Mercury	2453-11-16 04:04 G	2617319.56	2617319.67	2617319.78	0.2691	0.0317
Mercury	2466-11-18 21:35 G	2622070.32	2622070.40	2622070.49	0.2692	0.1696
Mercury	2473-11-11 21:21 G	2624620.33	2624620.39	2624620.45	0.2688	0.2196
Mercury	2483-05-12 18:57 G	2628089.16	2628089.29	2628089.41	0.2643	0.1529
Mercury	2486-11-14 15:07 G	2629371.03	2629371.13	2629371.24	0.2689	0.0792

Venus	2490-06-12 14:38 G	2630677.01	2630677.11	2630677.20	0.2628	0.2053
Mercury	2496-05-15 01:55 G	2632840.44	2632840.58	2632840.71	0.2642	0.1324
Venus	2498-06-10 07:40 G	2633596.68	2633596.82	2633596.96	0.2629	0.1236
Mercury	2499-11-17 08:52 G	2634121.76	2634121.87	2634121.97	0.2691	0.0601
Mercury	2512-11-20 02:24 G	2638872.53	2638872.60	2638872.67	0.2692	0.1981
Mercury	2519-11-14 02:09 G	2641422.52	2641422.59	2641422.67	0.2688	0.1904
Mercury	2529-05-14 01:26 G	2644891.42	2644891.56	2644891.71	0.2643	0.0970
Mercury	2532-11-15 19:55 G	2646173.22	2646173.33	2646173.44	0.2689	0.0503
Mercury	2542-05-17 08:24 G	2649642.74	2649642.85	2649642.96	0.2641	0.1888
Mercury	2545-11-18 13:40 G	2650923.97	2650924.07	2650924.17	0.2691	0.0889
Mercury	2558-11-21 07:11 G	2655674.74	2655674.80	2655674.86	0.2692	0.2262
Mercury	2565-11-14 06:57 G	2658224.71	2658224.79	2658224.88	0.2688	0.1615
Mercury	2575-05-15 08:09 G	2661693.68	2661693.84	2661693.99	0.2643	0.0425
Mercury	2578-11-17 00:43 G	2662975.42	2662975.53	2662975.64	0.2690	0.0225
Mercury	2588-05-17 15:07 G	2666445.08	2666445.13	2666445.19	0.2641	0.2458
Mercury	2591-11-19 18:28 G	2667726.17	2667726.27	2667726.37	0.2691	0.1177
Venus	2603-12-16 00:43 G	2672134.39	2672134.53	2672134.66	0.2704	0.1431
Mercury	2604-11-22 12:00 G	2672476.97	2672477.00	2672477.03	0.2693	0.2547
Mercury	2611-11-16 11:45 G	2675026.90	2675026.99	2675027.09	0.2688	0.1325
Venus	2611-12-13 13:55 G	2675054.04	2675054.08	2675054.12	0.2703	0.2604
Mercury	2621-05-16 14:38 G	2678495.96	2678496.11	2678496.27	0.2643	0.0151
Mercury	2624-11-18 05:31 G	2679777.62	2679777.73	2679777.84	0.2690	0.0123
Mercury	2637-11-20 23:16 G	2684528.38	2684528.47	2684528.56	0.2691	0.1461
Mercury	2644-11-13 22:48 G	2687078.41	2687078.45	2687078.50	0.2687	0.2440
Mercury	2654-05-14 14:24 G	2690547.01	2690547.10	2690547.20	0.2645	0.2134
Mercury	2657-11-16 16:48 G	2691829.10	2691829.20	2691829.30	0.2688	0.1030
Mercury	2667-05-17 21:21 G	2695298.23	2695298.39	2695298.54	0.2643	0.0696
Mercury	2670-11-19 10:19 G	2696579.83	2696579.93	2696580.04	0.2690	0.0375
Mercury	2683-11-22 04:04 G	2701330.59	2701330.67	2701330.75	0.2691	0.1748
Mercury	2690-11-15 03:50 G	2703880.59	2703880.66	2703880.72	0.2687	0.2143

Mercury	2700-05-15 21:07 G	2707349.26	2707349.38	2707349.51	0.2645	0.1573
Mercury	2703-11-18 21:35 G	2708631.29	2708631.40	2708631.50	0.2688	0.0741
Mercury	2713-05-19 03:50 G	2712100.53	2712100.66	2712100.80	0.2643	0.1260
Mercury	2716-11-20 15:07 G	2713382.03	2713382.13	2713382.24	0.2690	0.0663
Mercury	2729-11-23 08:52 G	2718132.80	2718132.87	2718132.94	0.2692	0.2032
Venus	2733-06-15 18:00 G	2719433.17	2719433.25	2719433.33	0.2629	0.2240
Mercury	2736-11-16 08:38 G	2720682.78	2720682.86	2720682.94	0.2687	0.1853
Venus	2741-06-13 10:48 G	2722352.81	2722352.95	2722353.10	0.2630	0.1079
Mercury	2746-05-17 03:35 G	2724151.51	2724151.65	2724151.80	0.2644	0.1028
Mercury	2749-11-19 02:24 G	2725433.49	2725433.60	2725433.71	0.2689	0.0449
Mercury	2759-05-20 10:33 G	2728902.83	2728902.94	2728903.06	0.2643	0.1828
Mercury	2762-11-21 19:55 G	2730184.23	2730184.33	2730184.44	0.2690	0.0949
Mercury	2775-11-24 13:40 G	2734935.02	2734935.07	2734935.12	0.2692	0.2319
Mercury	2782-11-17 13:26 G	2737484.97	2737485.06	2737485.15	0.2687	0.1560
Mercury	2792-05-17 10:19 G	2740953.78	2740953.93	2740954.09	0.2644	0.0468
Mercury	2795-11-20 07:11 G	2742235.69	2742235.80	2742235.91	0.2689	0.0162
Mercury	2805-05-20 17:16 G	2745705.16	2745705.22	2745705.29	0.2642	0.2392
Mercury	2808-11-22 00:43 G	2746986.44	2746986.53	2746986.63	0.2690	0.1235
Mercury	2815-11-16 00:28 G	2749536.52	2749536.52	2749536.52	0.2686	0.2684
Mercury	2821-11-24 18:28 G	2751737.25	2751737.27	2751737.29	0.2692	0.2604
Mercury	2828-11-17 18:14 G	2754287.16	2754287.26	2754287.36	0.2687	0.1269
Mercury	2838-05-18 17:02 G	2757756.05	2757756.21	2757756.36	0.2644	0.0111
Mercury	2841-11-20 12:00 G	2759037.89	2759038.00	2759038.11	0.2689	0.0137
Venus	2846-12-17 00:00 G	2760890.36	2760890.50	2760890.64	0.2703	0.1194
Mercury	2854-11-23 05:31 G	2763788.65	2763788.73	2763788.82	0.2690	0.1520
Mercury	2861-11-16 05:16 G	2766338.67	2766338.72	2766338.77	0.2686	0.2385
Mercury	2871-05-16 16:48 G	2769807.12	2769807.20	2769807.29	0.2646	0.2168
Mercury	2874-11-18 23:02 G	2771089.36	2771089.46	2771089.56	0.2687	0.0978
Mercury	2884-05-18 23:31 G	2774558.33	2774558.48	2774558.64	0.2644	0.0648
Mercury	2887-11-21 16:48 G	2775840.09	2775840.20	2775840.31	0.2689	0.0419

Mercury	2900-11-24 10:33 G	2780590.86	2780590.94	2780591.02	0.2691	0.1806
Mercury	2907-11-18 10:04 G	2783140.85	2783140.92	2783140.99	0.2686	0.2093
Mercury	2917-05-17 23:16 G	2786609.35	2786609.47	2786609.60	0.2645	0.1633
Mercury	2920-11-20 03:50 G	2787891.56	2787891.66	2787891.77	0.2688	0.0688
Mercury	2930-05-21 06:14 G	2791360.62	2791360.76	2791360.90	0.2643	0.1202
Mercury	2933-11-22 21:35 G	2792642.29	2792642.40	2792642.51	0.2689	0.0708
Mercury	2946-11-25 15:21 G	2797393.07	2797393.14	2797393.20	0.2691	0.2089
Mercury	2953-11-18 14:52 G	2799943.04	2799943.12	2799943.20	0.2686	0.1800
Mercury	2963-05-19 06:00 G	2803411.61	2803411.75	2803411.89	0.2645	0.1079
Mercury	2966-11-21 08:38 G	2804693.75	2804693.86	2804693.97	0.2688	0.0399
Mercury	2976-05-21 12:43 G	2808162.92	2808163.03	2808163.15	0.2643	0.1759
Venus	2976-06-16 20:52 G	2808189.30	2808189.37	2808189.43	0.2630	0.2357
Mercury	2979-11-24 02:24 G	2809444.50	2809444.60	2809444.70	0.2689	0.0996
Venus	2984-06-14 13:55 G	2811108.93	2811109.08	2811109.23	0.2631	0.0941
Mercury	2992-11-25 20:09 G	2814195.29	2814195.34	2814195.39	0.2691	0.2375
Mercury	2999-11-19 19:40 G	2816745.23	2816745.32	2816745.41	0.2686	0.1512

4TH MILLENNIUM CE

This is a list of transits visible from Earth in the 4th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	3009-05-20 12:28 G		2820213.87	2820214.02	2820214.18	0.2645	0.0537	
Mercury	3012-11-22 13:26 G		2821495.95	2821496.06	2821496.17	0.2688	0.0126	
Mercury	3022-05-23 19:26 G		2824965.23	2824965.31	2824965.38	0.2643	0.2319	

Mercury	3025-11-25 07:11 G	2826246.71	2826246.80	2826246.90	0.2690	0.1285
Mercury	3032-11-18 06:43 G	2828796.76	2828796.78	2828796.80	0.2685	0.2630
Mercury	3038-11-28 00:57 G	2830997.52	2830997.54	2830997.55	0.2691	0.2662
Mercury	3045-11-21 00:28 G	2833547.43	2833547.52	2833547.62	0.2686	0.1219
Mercury	3055-05-21 19:11 G	2837016.14	2837016.30	2837016.46	0.2645	0.0044
Mercury	3058-11-23 18:14 G	2838298.16	2838298.26	2838298.37	0.2688	0.0208
Mercury	3071-11-26 12:00 G	2843048.92	2843049.00	2843049.09	0.2690	0.1575
Mercury	3078-11-19 11:31 G	2845598.93	2845598.98	2845599.04	0.2685	0.2336
Mercury	3088-05-18 19:11 G	2849067.22	2849067.30	2849067.38	0.2646	0.2217
Venus	3089-12-18 22:48 G	2849646.30	2849646.45	2849646.60	0.2702	0.0884
Mercury	3091-11-22 05:31 G	2850349.62	2850349.73	2850349.83	0.2687	0.0933
Mercury	3101-05-23 01:40 G	2853818.42	2853818.57	2853818.73	0.2645	0.0592
Mercury	3104-11-24 23:16 G	2855100.36	2855100.47	2855100.57	0.2688	0.0486
Mercury	3117-11-27 16:48 G	2859851.13	2859851.20	2859851.28	0.2690	0.1861
Mercury	3124-11-20 16:19 G	2862401.11	2862401.18	2862401.25	0.2685	0.2047
Mercury	3134-05-21 01:40 G	2865869.45	2865869.57	2865869.69	0.2646	0.1675
Mercury	3137-11-23 10:19 G	2867151.82	2867151.93	2867152.03	0.2687	0.0640
Mercury	3147-05-24 08:24 G	2870620.71	2870620.85	2870620.99	0.2644	0.1146
Mercury	3150-11-26 04:04 G	2871902.56	2871902.67	2871902.77	0.2688	0.0768
Mercury	3163-11-28 21:35 G	2876653.34	2876653.40	2876653.47	0.2690	0.2147
Mercury	3170-11-21 21:07 G	2879203.30	2879203.38	2879203.47	0.2685	0.1758
Mercury	3180-05-21 08:24 G	2882671.70	2882671.85	2882671.99	0.2646	0.1134
Mercury	3183-11-24 15:07 G	2883954.02	2883954.13	2883954.24	0.2687	0.0348
Mercury	3193-05-24 14:52 G	2887423.00	2887423.12	2887423.24	0.2644	0.1698
Mercury	3196-11-26 08:52 G	2888704.77	2888704.87	2888704.97	0.2689	0.1055
Mercury	3209-11-29 02:24 G	2893455.56	2893455.60	2893455.65	0.2690	0.2431
Mercury	3216-11-22 02:09 G	2896005.49	2896005.59	2896005.68	0.2686	0.1458
Venus	3219-06-19 23:45 G	2896945.45	2896945.49	2896945.54	0.2631	0.2518
Mercury	3226-05-22 14:52 G	2899473.97	2899474.12	2899474.27	0.2646	0.0575
Venus	3227-06-17 16:48 G	2899865.05	2899865.20	2899865.35	0.2632	0.0821

Mercury	3229-11-24 19:55 G	2900756.22	2900756.33	2900756.44	0.2687	0.0058
Mercury	3239-05-25 21:35 G	2904225.32	2904225.40	2904225.48	0.2644	0.2262
Mercury	3242-11-27 13:40 G	2905506.97	2905507.07	2905507.16	0.2689	0.1339
Mercury	3249-11-20 12:57 G	2908057.02	2908057.04	2908057.07	0.2684	0.2580
Mercury	3262-11-23 06:57 G	2912807.69	2912807.79	2912807.89	0.2686	0.1164
Mercury	3272-05-22 21:21 G	2916276.23	2916276.39	2916276.55	0.2646	0.0036
Mercury	3275-11-26 00:43 G	2917558.42	2917558.53	2917558.64	0.2687	0.0242
Mercury	3288-11-27 18:28 G	2922309.18	2922309.27	2922309.35	0.2689	0.1629
Mercury	3295-11-21 18:00 G	2924859.19	2924859.25	2924859.30	0.2684	0.2290
Mercury	3305-05-21 21:35 G	2928327.32	2928327.40	2928327.47	0.2648	0.2273
Mercury	3308-11-24 11:45 G	2929609.89	2929609.99	2929610.09	0.2686	0.0869
Mercury	3318-05-25 04:04 G	2933078.51	2933078.67	2933078.82	0.2646	0.0527
Mercury	3321-11-27 05:31 G	2934360.62	2934360.73	2934360.84	0.2687	0.0532
Venus	3332-12-20 22:04 G	2938402.27	2938402.42	2938402.58	0.2701	0.0648
Mercury	3334-11-29 23:16 G	2939111.39	2939111.47	2939111.54	0.2689	0.1917
Mercury	3341-11-22 22:48 G	2941661.38	2941661.45	2941661.52	0.2684	0.1993
Mercury	3351-05-23 04:04 G	2945129.55	2945129.67	2945129.79	0.2647	0.1721
Mercury	3354-11-25 16:33 G	2946412.09	2946412.19	2946412.30	0.2686	0.0583
Mercury	3364-05-25 10:33 G	2949880.80	2949880.94	2949881.08	0.2645	0.1077
Mercury	3367-11-28 10:19 G	2951162.83	2951162.93	2951163.04	0.2688	0.0821
Mercury	3380-11-30 04:04 G	2955913.61	2955913.67	2955913.73	0.2689	0.2204
Mercury	3387-11-24 03:35 G	2958463.57	2958463.65	2958463.73	0.2684	0.1696
Mercury	3397-05-23 10:33 G	2961931.81	2961931.94	2961932.09	0.2647	0.1175
Mercury	3400-11-26 21:21 G	2963214.28	2963214.39	2963214.50	0.2686	0.0296
Mercury	3410-05-27 17:16 G	2966683.10	2966683.22	2966683.34	0.2645	0.1650
Mercury	3413-11-29 15:07 G	2967965.03	2967965.13	2967965.23	0.2688	0.1107
Mercury	3426-12-02 08:52 G	2972715.83	2972715.87	2972715.91	0.2689	0.2489
Mercury	3433-11-25 08:24 G	2975265.76	2975265.85	2975265.95	0.2685	0.1404
Mercury	3443-05-25 17:02 G	2978734.06	2978734.21	2978734.37	0.2647	0.0637
Mercury	3446-11-28 02:09 G	2980016.48	2980016.59	2980016.70	0.2686	0.0093

Mercury	3456-05-27 23:45 G	2983485.41	2983485.49	2983485.58	0.2645	0.2205
Mercury	3459-11-30 19:55 G	2984767.24	2984767.33	2984767.42	0.2688	0.1399
Venus	3462-06-22 02:38 G	2985701.61	2985701.61	2985701.62	0.2632	0.2628
Mercury	3466-11-23 19:26 G	2987317.27	2987317.31	2987317.34	0.2683	0.2533
Venus	3470-06-19 19:40 G	2988621.17	2988621.32	2988621.47	0.2633	0.0695
Mercury	3479-11-26 13:11 G	2992067.95	2992068.05	2992068.15	0.2685	0.1114
Mercury	3489-05-25 23:45 G	2995536.33	2995536.49	2995536.65	0.2647	0.0080
Mercury	3492-11-28 06:57 G	2996818.69	2996818.79	2996818.90	0.2686	0.0312
Mercury	3505-12-02 00:43 G	3001569.45	3001569.53	3001569.62	0.2688	0.1686
Mercury	3512-11-25 00:14 G	3004119.45	3004119.51	3004119.57	0.2683	0.2234
Mercury	3522-05-25 00:00 G	3007587.42	3007587.50	3007587.57	0.2648	0.2313
Mercury	3525-11-27 18:00 G	3008870.15	3008870.25	3008870.36	0.2685	0.0826
Mercury	3535-05-28 06:14 G	3012338.61	3012338.76	3012338.92	0.2646	0.0467
Mercury	3538-11-30 11:45 G	3013620.89	3013620.99	3013621.10	0.2687	0.0593
Mercury	3551-12-03 05:31 G	3018371.66	3018371.73	3018371.81	0.2688	0.1974
Mercury	3558-11-26 05:02 G	3020921.64	3020921.71	3020921.79	0.2684	0.1937
Mercury	3568-05-25 06:28 G	3024389.65	3024389.77	3024389.88	0.2648	0.1772
Mercury	3571-11-28 23:02 G	3025672.35	3025672.46	3025672.56	0.2685	0.0532
Venus	3575-12-23 21:07 G	3027158.22	3027158.38	3027158.54	0.2699	0.0360
Mercury	3581-05-28 12:57 G	3029140.89	3029141.04	3029141.18	0.2646	0.1029
Mercury	3584-11-30 16:48 G	3030423.09	3030423.20	3030423.30	0.2687	0.0879
Mercury	3597-12-03 10:19 G	3035173.88	3035173.93	3035173.99	0.2688	0.2260
Mercury	3604-11-26 09:50 G	3037723.83	3037723.91	3037724.00	0.2684	0.1644
Mercury	3614-05-26 12:57 G	3041191.90	3041192.04	3041192.18	0.2648	0.1230
Mercury	3617-11-29 03:50 G	3042474.55	3042474.66	3042474.77	0.2685	0.0241
Mercury	3627-05-29 19:26 G	3045943.18	3045943.31	3045943.43	0.2646	0.1575
Mercury	3630-12-01 21:35 G	3047225.30	3047225.40	3047225.50	0.2687	0.1170
Mercury	3643-12-04 15:07 G	3051976.10	3051976.13	3051976.17	0.2688	0.2548
Mercury	3650-11-27 14:52 G	3054526.02	3054526.12	3054526.21	0.2684	0.1355
Mercury	3660-05-26 19:26 G	3057994.16	3057994.31	3057994.47	0.2648	0.0684

Mercury	3663-11-30 08:38 G	3059276.75	3059276.86	3059276.97	0.2685	0.0076
Mercury	3673-05-30 01:55 G	3062745.49	3062745.58	3062745.67	0.2646	0.2137
Mercury	3676-12-02 02:24 G	3064027.51	3064027.60	3064027.69	0.2687	0.1456
Mercury	3683-11-26 01:40 G	3066577.53	3066577.57	3066577.61	0.2682	0.2476
Mercury	3696-11-27 19:40 G	3071328.22	3071328.32	3071328.42	0.2684	0.1060
Mercury	3706-05-29 02:09 G	3074796.43	3074796.59	3074796.74	0.2648	0.0145
Mercury	3709-12-01 13:26 G	3076078.95	3076079.06	3076079.17	0.2686	0.0350
Venus	3713-06-21 22:19 G	3077377.28	3077377.43	3077377.59	0.2634	0.0604
Mercury	3722-12-04 07:11 G	3080829.72	3080829.80	3080829.88	0.2687	0.1743
Mercury	3729-11-27 06:28 G	3083379.71	3083379.77	3083379.84	0.2682	0.2181
Mercury	3739-05-27 02:24 G	3086847.53	3086847.60	3086847.67	0.2649	0.2352
Mercury	3742-11-30 00:28 G	3088130.41	3088130.52	3088130.62	0.2684	0.0763
Mercury	3752-05-29 08:38 G	3091598.71	3091598.86	3091599.01	0.2647	0.0420
Mercury	3755-12-02 18:14 G	3092881.15	3092881.26	3092881.37	0.2686	0.0642
Mercury	3768-12-04 12:00 G	3097631.93	3097632.00	3097632.07	0.2687	0.2029
Mercury	3775-11-28 11:16 G	3100181.90	3100181.97	3100182.05	0.2683	0.1888
Mercury	3785-05-27 08:52 G	3103649.76	3103649.87	3103649.98	0.2649	0.1815
Mercury	3788-11-30 05:16 G	3104932.61	3104932.72	3104932.83	0.2684	0.0469
Mercury	3798-05-30 15:07 G	3108400.98	3108401.13	3108401.28	0.2647	0.0965
Mercury	3801-12-03 23:02 G	3109683.36	3109683.46	3109683.56	0.2686	0.0935
Mercury	3814-12-06 16:48 G	3114434.15	3114434.20	3114434.25	0.2687	0.2320
Venus	3818-12-25 20:24 G	3115914.19	3115914.35	3115914.51	0.2698	0.0112
Mercury	3821-11-29 16:19 G	3116984.09	3116984.18	3116984.26	0.2683	0.1593
Mercury	3831-05-29 15:21 G	3120452.00	3120452.14	3120452.28	0.2649	0.1278
Mercury	3834-12-02 10:04 G	3121734.81	3121734.92	3121735.03	0.2684	0.0178
Mercury	3844-05-31 21:35 G	3125203.28	3125203.40	3125203.53	0.2647	0.1524
Mercury	3847-12-05 03:50 G	3126485.57	3126485.66	3126485.76	0.2686	0.1225
Mercury	3860-12-06 21:35 G	3131236.38	3131236.40	3131236.42	0.2688	0.2605
Mercury	3867-11-30 21:07 G	3133786.28	3133786.38	3133786.47	0.2683	0.1294
Mercury	3877-05-29 21:50 G	3137254.26	3137254.41	3137254.56	0.2649	0.0737

Mercury	3880-12-02 14:52 G	3138537.01	3138537.12	3138537.23	0.2685	0.0136
Mercury	3890-06-02 04:19 G	3142005.58	3142005.68	3142005.77	0.2647	0.2072
Mercury	3893-12-05 08:38 G	3143287.77	3143287.86	3143287.95	0.2686	0.1513
Mercury	3900-11-29 07:55 G	3145837.79	3145837.83	3145837.88	0.2681	0.2422
Mercury	3913-12-02 01:55 G	3150588.48	3150588.58	3150588.68	0.2683	0.0997
Mercury	3923-06-01 04:19 G	3154056.53	3154056.68	3154056.84	0.2649	0.0193
Mercury	3926-12-04 19:40 G	3155339.22	3155339.32	3155339.43	0.2685	0.0424
Mercury	3936-06-03 10:48 G	3158807.94	3158807.95	3158807.96	0.2647	0.2633
Mercury	3939-12-07 13:26 G	3160089.98	3160090.06	3160090.14	0.2686	0.1805
Mercury	3946-11-30 12:57 G	3162639.97	3162640.04	3162640.10	0.2682	0.2128
Mercury	3956-05-29 04:48 G	3166107.64	3166107.70	3166107.77	0.2650	0.2395
Venus	3956-06-24 01:11 G	3166133.39	3166133.55	3166133.71	0.2635	0.0493
Mercury	3959-12-03 06:43 G	3167390.68	3167390.78	3167390.89	0.2683	0.0707
Mercury	3969-06-01 10:48 G	3170858.80	3170858.95	3170859.11	0.2648	0.0363
Mercury	3972-12-05 00:43 G	3172141.42	3172141.53	3172141.63	0.2685	0.0708
Mercury	3985-12-07 18:14 G	3176892.20	3176892.26	3176892.33	0.2686	0.2097
Mercury	3992-11-30 17:45 G	3179442.16	3179442.24	3179442.32	0.2682	0.1831

5TH MILLENNIUM CE

This is a list of transits visible from Earth in the 5th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	4002-05-30 11:16 G		3182909.86	3182909.97	3182910.08	0.2650	0.1858	
Mercury	4005-12-03 11:31 G		3184192.88	3184192.98	3184193.09	0.2683	0.0424	

Mercury	4015-06-02 17:31 G	3187661.08	3187661.23	3187661.38	0.2648	0.0917
Mercury	4018-12-06 05:31 G	3188943.63	3188943.73	3188943.83	0.2685	0.0997
Mercury	4031-12-08 23:16 G	3193694.42	3193694.47	3193694.51	0.2687	0.2383
Mercury	4038-12-01 22:33 G	3196244.35	3196244.44	3196244.53	0.2682	0.1535
Mercury	4048-05-30 17:45 G	3199712.11	3199712.24	3199712.37	0.2650	0.1320
Mercury	4051-12-04 16:33 G	3200995.08	3200995.19	3200995.30	0.2684	0.0146
Mercury	4061-06-03 00:00 G	3204463.37	3204463.50	3204463.63	0.2648	0.1466
Venus	4061-12-26 19:40 G	3204670.16	3204670.32	3204670.48	0.2697	0.0133
Mercury	4064-12-06 10:19 G	3205745.83	3205745.93	3205746.02	0.2685	0.1284
Mercury	4071-11-30 09:21 G	3208295.89	3208295.89	3208295.90	0.2680	0.2667
Mercury	4077-12-09 04:04 G	3210496.66	3210496.67	3210496.67	0.2687	0.2670
Mercury	4084-12-02 03:21 G	3213046.55	3213046.64	3213046.74	0.2682	0.1238
Mercury	4094-06-01 00:14 G	3216514.36	3216514.51	3216514.66	0.2650	0.0775
Mercury	4097-12-04 21:21 G	3217797.28	3217797.39	3217797.50	0.2684	0.0186
Mercury	4107-06-05 06:28 G	3221265.68	3221265.77	3221265.87	0.2648	0.2026
Mercury	4110-12-08 15:07 G	3222548.04	3222548.13	3222548.22	0.2685	0.1575
Mercury	4117-12-01 14:24 G	3225098.05	3225098.10	3225098.15	0.2681	0.2369
Mercury	4130-12-04 08:24 G	3229848.74	3229848.85	3229848.95	0.2682	0.0949
Mercury	4140-06-02 06:43 G	3233316.63	3233316.78	3233316.94	0.2649	0.0238
Mercury	4143-12-07 02:09 G	3234599.48	3234599.59	3234599.70	0.2684	0.0470
Mercury	4153-06-05 13:11 G	3238068.02	3238068.05	3238068.08	0.2648	0.2580
Mercury	4156-12-08 19:55 G	3239350.25	3239350.33	3239350.41	0.2685	0.1865
Mercury	4163-12-02 19:11 G	3241900.23	3241900.30	3241900.37	0.2681	0.2068
Mercury	4173-05-31 07:11 G	3245367.74	3245367.80	3245367.86	0.2651	0.2441
Mercury	4176-12-04 13:11 G	3246650.94	3246651.05	3246651.15	0.2683	0.0651
Mercury	4186-06-03 13:11 G	3250118.90	3250119.05	3250119.21	0.2649	0.0319
Mercury	4189-12-07 06:57 G	3251401.68	3251401.79	3251401.90	0.2684	0.0762
Venus	4199-06-26 03:50 G	3254889.50	3254889.66	3254889.81	0.2636	0.0408
Mercury	4202-12-11 00:43 G	3256152.47	3256152.53	3256152.59	0.2686	0.2154
Mercury	4209-12-04 00:00 G	3258702.42	3258702.50	3258702.58	0.2681	0.1772

Mercury	4219-06-02 13:40 G	3262169.97	3262170.07	3262170.18	0.2651	0.1905
Mercury	4222-12-06 18:00 G	3263453.14	3263453.25	3263453.36	0.2683	0.0351
Mercury	4232-06-04 19:40 G	3266921.18	3266921.32	3266921.47	0.2649	0.0858
Mercury	4235-12-09 11:45 G	3268203.89	3268203.99	3268204.09	0.2684	0.1055
Mercury	4248-12-11 05:31 G	3272954.69	3272954.73	3272954.77	0.2686	0.2444
Mercury	4255-12-05 04:48 G	3275504.61	3275504.70	3275504.80	0.2681	0.1476
Mercury	4265-06-02 20:09 G	3278972.21	3278972.34	3278972.48	0.2651	0.1358
Mercury	4268-12-06 22:48 G	3280255.34	3280255.45	3280255.56	0.2683	0.0054
Mercury	4278-06-06 02:24 G	3283723.47	3283723.60	3283723.73	0.2649	0.1414
Mercury	4281-12-09 16:33 G	3285006.10	3285006.19	3285006.29	0.2684	0.1349
Mercury	4288-12-02 15:50 G	3287556.13	3287556.16	3287556.18	0.2680	0.2608
Mercury	4301-12-06 09:50 G	3292306.81	3292306.91	3292307.01	0.2681	0.1180
Venus	4304-12-29 19:11 G	3293426.14	3293426.30	3293426.46	0.2696	0.0373
Mercury	4311-06-05 02:52 G	3295774.47	3295774.62	3295774.76	0.2651	0.0819
Mercury	4314-12-09 03:35 G	3297057.54	3297057.65	3297057.76	0.2683	0.0243
Mercury	4324-06-07 08:52 G	3300525.77	3300525.87	3300525.98	0.2649	0.1973
Mercury	4327-12-11 21:35 G	3301808.31	3301808.40	3301808.48	0.2684	0.1644
Mercury	4334-12-04 20:38 G	3304358.31	3304358.36	3304358.41	0.2680	0.2310
Mercury	4347-12-07 14:38 G	3309109.00	3309109.11	3309109.21	0.2681	0.0882
Mercury	4357-06-05 09:21 G	3312576.73	3312576.89	3312577.04	0.2650	0.0281
Mercury	4360-12-09 08:24 G	3313859.75	3313859.85	3313859.96	0.2683	0.0538
Mercury	4370-06-08 15:35 G	3317328.10	3317328.15	3317328.19	0.2648	0.2527
Mercury	4373-12-12 02:24 G	3318610.52	3318610.60	3318610.67	0.2685	0.1932
Mercury	4380-12-05 01:26 G	3321160.49	3321160.56	3321160.63	0.2680	0.2012
Mercury	4390-06-03 09:50 G	3324627.86	3324627.91	3324627.96	0.2652	0.2466
Mercury	4393-12-07 19:26 G	3325911.20	3325911.31	3325911.42	0.2682	0.0587
Mercury	4403-06-06 15:50 G	3329379.00	3329379.16	3329379.31	0.2650	0.0274
Mercury	4406-12-10 13:26 G	3330661.95	3330662.06	3330662.16	0.2683	0.0834
Mercury	4419-12-13 07:11 G	3335412.74	3335412.80	3335412.86	0.2685	0.2219
Mercury	4426-12-06 06:14 G	3337962.68	3337962.76	3337962.85	0.2680	0.1715

Mercury	4436-06-03 16:19 G	3341430.08	3341430.18	3341430.28	0.2652	0.1933
Mercury	4439-12-09 00:14 G	3342713.40	3342713.51	3342713.62	0.2682	0.0291
Venus	4442-06-28 06:28 G	3343645.62	3343645.77	3343645.93	0.2638	0.0311
Mercury	4449-06-06 22:19 G	3346181.28	3346181.43	3346181.58	0.2650	0.0819
Mercury	4452-12-10 18:14 G	3347464.16	3347464.26	3347464.36	0.2683	0.1119
Mercury	4465-12-13 12:00 G	3352214.96	3352215.00	3352215.03	0.2685	0.2507
Mercury	4472-12-06 11:16 G	3354764.87	3354764.97	3354765.06	0.2680	0.1415
Mercury	4482-06-04 22:48 G	3358232.32	3358232.45	3358232.58	0.2652	0.1402
Mercury	4485-12-09 05:02 G	3359515.60	3359515.71	3359515.83	0.2682	0.0102
Mercury	4495-06-08 04:48 G	3362983.56	3362983.70	3362983.83	0.2650	0.1361
Mercury	4498-12-11 23:02 G	3364266.37	3364266.46	3364266.55	0.2684	0.1412
Mercury	4505-12-05 22:04 G	3366816.39	3366816.42	3366816.45	0.2679	0.2550
Mercury	4518-12-08 16:04 G	3371567.07	3371567.17	3371567.27	0.2680	0.1115
Mercury	4528-06-06 05:16 G	3375034.57	3375034.72	3375034.86	0.2652	0.0868
Mercury	4531-12-11 10:04 G	3376317.81	3376317.92	3376318.03	0.2682	0.0314
Mercury	4541-06-09 11:16 G	3379785.86	3379785.97	3379786.08	0.2650	0.1910
Mercury	4544-12-13 03:50 G	3381068.58	3381068.66	3381068.74	0.2684	0.1703
Venus	4547-12-31 18:43 G	3382182.13	3382182.28	3382182.44	0.2694	0.0585
Mercury	4551-12-07 02:52 G	3383618.56	3383618.62	3383618.68	0.2679	0.2248
Mercury	4564-12-08 20:52 G	3388369.27	3388369.37	3388369.48	0.2681	0.0821
Mercury	4574-06-07 11:45 G	3391836.83	3391836.99	3391837.14	0.2651	0.0330
Mercury	4577-12-11 14:52 G	3393120.01	3393120.12	3393120.23	0.2682	0.0598
Mercury	4587-06-10 17:45 G	3396588.18	3396588.24	3396588.29	0.2649	0.2459
Mercury	4590-12-14 08:38 G	3397870.79	3397870.86	3397870.93	0.2684	0.1994
Mercury	4597-12-07 07:40 G	3400420.75	3400420.82	3400420.90	0.2679	0.1953
Mercury	4607-06-06 12:28 G	3403887.97	3403888.02	3403888.07	0.2653	0.2497
Mercury	4610-12-11 01:40 G	3405171.47	3405171.57	3405171.68	0.2681	0.0530
Mercury	4620-06-08 18:14 G	3408639.11	3408639.26	3408639.41	0.2651	0.0230
Mercury	4623-12-13 19:40 G	3409922.22	3409922.32	3409922.42	0.2682	0.0889
Mercury	4636-12-15 13:26 G	3414673.01	3414673.06	3414673.12	0.2684	0.2283

Mercury	4643-12-09 12:43 G	3417222.94	3417223.03	3417223.11	0.2679	0.1651
Mercury	4653-06-06 18:57 G	3420690.18	3420690.29	3420690.39	0.2653	0.1969
Mercury	4656-12-11 06:43 G	3421973.67	3421973.78	3421973.89	0.2681	0.0237
Mercury	4666-06-10 00:43 G	3425441.38	3425441.53	3425441.68	0.2651	0.0766
Mercury	4669-12-14 00:28 G	3426724.42	3426724.52	3426724.62	0.2683	0.1184
Mercury	4682-12-16 18:14 G	3431475.24	3431475.26	3431475.29	0.2684	0.2575
Venus	4685-06-30 08:52 G	3432401.72	3432401.87	3432402.03	0.2639	0.0252
Mercury	4689-12-09 17:31 G	3434025.13	3434025.23	3434025.33	0.2679	0.1355
Mercury	4699-06-08 01:11 G	3437492.42	3437492.55	3437492.68	0.2653	0.1442
Mercury	4702-12-13 11:31 G	3438775.87	3438775.98	3438776.09	0.2681	0.0078
Mercury	4712-06-11 07:11 G	3442243.66	3442243.80	3442243.93	0.2651	0.1315
Mercury	4715-12-16 05:16 G	3443526.63	3443526.72	3443526.81	0.2683	0.1476
Mercury	4722-12-09 04:19 G	3446076.64	3446076.68	3446076.72	0.2678	0.2488
Mercury	4735-12-11 22:19 G	3450827.33	3450827.43	3450827.53	0.2680	0.1057
Mercury	4745-06-09 07:40 G	3454294.68	3454294.82	3454294.97	0.2652	0.0904
Mercury	4748-12-13 16:19 G	3455578.07	3455578.18	3455578.29	0.2681	0.0362
Mercury	4758-06-12 13:40 G	3459045.96	3459046.07	3459046.18	0.2650	0.1857
Mercury	4761-12-16 10:04 G	3460328.84	3460328.92	3460329.01	0.2683	0.1768
Mercury	4768-12-09 09:07 G	3462878.82	3462878.88	3462878.95	0.2678	0.2190
Mercury	4781-12-12 03:21 G	3467629.53	3467629.64	3467629.74	0.2680	0.0760
Venus	4791-01-02 18:14 G	3470938.11	3470938.26	3470938.42	0.2693	0.0805
Mercury	4791-06-10 14:09 G	3471096.94	3471097.09	3471097.24	0.2652	0.0363
Mercury	4794-12-14 21:07 G	3472380.27	3472380.38	3472380.49	0.2681	0.0661
Mercury	4804-06-12 20:09 G	3475848.28	3475848.34	3475848.40	0.2650	0.2416
Mercury	4807-12-17 15:07 G	3477131.06	3477131.13	3477131.19	0.2683	0.2058
Mercury	4814-12-10 14:09 G	3479681.01	3479681.09	3479681.17	0.2678	0.1887
Mercury	4824-06-07 14:52 G	3483148.08	3483148.12	3483148.17	0.2654	0.2537
Mercury	4827-12-13 08:09 G	3484431.73	3484431.84	3484431.95	0.2680	0.0459
Mercury	4837-06-10 20:38 G	3487899.20	3487899.36	3487899.51	0.2652	0.0171
Mercury	4840-12-15 01:55 G	3489182.48	3489182.58	3489182.69	0.2682	0.0959

Mercury	4853-12-17 19:55 G	3493933.28	3493933.33	3493933.38	0.2683	0.2353
Mercury	4860-12-10 18:57 G	3496483.20	3496483.29	3496483.38	0.2678	0.1591
Mercury	4870-06-08 21:21 G	3499950.29	3499950.39	3499950.49	0.2654	0.2010
Mercury	4873-12-13 12:57 G	3501233.93	3501234.04	3501234.15	0.2680	0.0163
Mercury	4883-06-12 03:07 G	3504701.48	3504701.63	3504701.78	0.2652	0.0717
Mercury	4886-12-16 06:57 G	3505984.69	3505984.79	3505984.88	0.2682	0.1254
Mercury	4899-12-19 00:43 G	3510735.51	3510735.53	3510735.54	0.2683	0.2642
Mercury	4906-12-12 23:45 G	3513285.40	3513285.49	3513285.59	0.2679	0.1292
Mercury	4916-06-10 03:50 G	3516752.53	3516752.66	3516752.79	0.2653	0.1468
Mercury	4919-12-15 17:45 G	3518036.13	3518036.24	3518036.35	0.2680	0.0137
Venus	4928-07-02 11:31 G	3521157.83	3521157.98	3521158.14	0.2640	0.0169
Mercury	4929-06-13 09:35 G	3521503.76	3521503.90	3521504.04	0.2652	0.1261
Mercury	4932-12-17 11:45 G	3522786.90	3522786.99	3522787.08	0.2682	0.1542
Mercury	4939-12-11 10:33 G	3525336.90	3525336.94	3525336.99	0.2677	0.2431
Mercury	4952-12-13 04:48 G	3530087.59	3530087.70	3530087.80	0.2679	0.0997
Mercury	4962-06-11 10:19 G	3533554.79	3533554.93	3533555.07	0.2653	0.0938
Mercury	4965-12-15 22:33 G	3534838.33	3534838.44	3534838.55	0.2680	0.0438
Mercury	4975-06-14 16:04 G	3538306.06	3538306.17	3538306.28	0.2651	0.1820
Mercury	4978-12-18 16:33 G	3539589.11	3539589.19	3539589.27	0.2682	0.1832
Mercury	4985-12-11 15:35 G	3542139.08	3542139.15	3542139.21	0.2677	0.2133
Mercury	4998-12-14 09:35 G	3546889.79	3546889.90	3546890.00	0.2679	0.0696

6TH MILLENNIUM CE

This is a list of transits visible from Earth in the 6th millennium CE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
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TRANSIT

TIME

Mercury	5008-06-12 16:48 G	3550357.04	3550357.20	3550357.35	0.2653	0.0408
Mercury	5011-12-18 03:35 G	3551640.54	3551640.65	3551640.75	0.2681	0.0731
Mercury	5021-06-15 22:33 G	3555108.37	3555108.44	3555108.51	0.2651	0.2358
Mercury	5024-12-19 21:21 G	3556391.33	3556391.39	3556391.46	0.2682	0.2129
Mercury	5031-12-13 20:24 G	3558941.27	3558941.35	3558941.43	0.2678	0.1830
Venus	5034-01-04 18:00 G	3559694.10	3559694.25	3559694.40	0.2692	0.1021
Mercury	5041-06-10 17:31 G	3562408.20	3562408.23	3562408.27	0.2655	0.2570
Mercury	5044-12-15 14:24 G	3563691.99	3563692.10	3563692.21	0.2679	0.0400
Mercury	5054-06-13 23:16 G	3567159.31	3567159.47	3567159.62	0.2653	0.0154
Mercury	5057-12-18 08:24 G	3568442.75	3568442.85	3568442.95	0.2681	0.1021
Mercury	5070-12-21 02:09 G	3573193.55	3573193.59	3573193.64	0.2682	0.2419
Mercury	5077-12-14 01:11 G	3575743.46	3575743.55	3575743.64	0.2678	0.1528
Mercury	5087-06-12 00:00 G	3579210.41	3579210.50	3579210.60	0.2655	0.2038
Mercury	5090-12-16 19:11 G	3580494.19	3580494.30	3580494.41	0.2679	0.0108
Mercury	5100-06-15 05:31 G	3583961.58	3583961.73	3583961.88	0.2653	0.0669
Mercury	5103-12-20 13:11 G	3585244.95	3585245.05	3585245.15	0.2681	0.1312
Mercury	5110-12-13 12:00 G	3587795.00	3587795.00	3587795.00	0.2676	0.2672
Mercury	5123-12-16 06:00 G	3592545.66	3592545.75	3592545.85	0.2678	0.1232
Mercury	5133-06-13 06:28 G	3596012.64	3596012.77	3596012.89	0.2655	0.1516
Mercury	5136-12-18 00:00 G	3597296.39	3597296.50	3597296.62	0.2679	0.0229
Mercury	5146-06-16 12:00 G	3600763.87	3600764.00	3600764.14	0.2653	0.1216
Mercury	5149-12-20 18:00 G	3602047.16	3602047.25	3602047.34	0.2681	0.1609
Mercury	5156-12-13 16:48 G	3604597.15	3604597.20	3604597.25	0.2676	0.2373
Mercury	5169-12-16 11:02 G	3609347.85	3609347.96	3609348.06	0.2678	0.0931
Venus	5171-07-05 13:40 G	3609913.92	3609914.07	3609914.23	0.2641	0.0148
Mercury	5179-06-14 12:57 G	3612814.89	3612815.04	3612815.18	0.2654	0.0984
Mercury	5182-12-19 05:02 G	3614098.60	3614098.71	3614098.82	0.2680	0.0498
Mercury	5192-06-16 18:28 G	3617566.15	3617566.27	3617566.38	0.2652	0.1751

Mercury	5195-12-21 22:48 G	3618849.38	3618849.45	3618849.53	0.2681	0.1907
Mercury	5202-12-14 21:50 G	3621399.34	3621399.41	3621399.48	0.2676	0.2071
Mercury	5215-12-17 15:50 G	3626150.05	3626150.16	3626150.27	0.2678	0.0632
Mercury	5225-06-14 19:11 G	3629617.15	3629617.30	3629617.45	0.2654	0.0449
Mercury	5228-12-19 09:50 G	3630900.80	3630900.91	3630901.02	0.2680	0.0792
Mercury	5238-06-18 00:57 G	3634368.47	3634368.54	3634368.62	0.2652	0.2307
Mercury	5241-12-22 03:50 G	3635651.59	3635651.66	3635651.72	0.2681	0.2197
Mercury	5248-12-15 02:38 G	3638201.53	3638201.61	3638201.69	0.2676	0.1767
Mercury	5258-06-12 20:24 G	3641668.32	3641668.35	3641668.38	0.2656	0.2591
Mercury	5261-12-17 20:38 G	3642952.25	3642952.36	3642952.47	0.2678	0.0336
Mercury	5271-06-16 01:40 G	3646419.42	3646419.57	3646419.72	0.2654	0.0093
Mercury	5274-12-20 14:38 G	3647703.01	3647703.11	3647703.21	0.2680	0.1087
Venus	5277-01-05 17:45 G	3648450.10	3648450.24	3648450.38	0.2690	0.1216
Mercury	5287-12-23 08:38 G	3652453.82	3652453.86	3652453.90	0.2681	0.2484
Mercury	5294-12-16 07:26 G	3655003.72	3655003.81	3655003.91	0.2677	0.1468
Mercury	5304-06-14 02:38 G	3658470.52	3658470.61	3658470.70	0.2656	0.2072
Mercury	5307-12-20 01:40 G	3659754.45	3659754.57	3659754.68	0.2678	0.0100
Mercury	5317-06-17 08:09 G	3663221.69	3663221.84	3663221.99	0.2654	0.0629
Mercury	5320-12-21 19:26 G	3664505.22	3664505.31	3664505.41	0.2680	0.1385
Mercury	5327-12-15 18:14 G	3667055.24	3667055.26	3667055.28	0.2675	0.2613
Mercury	5340-12-17 12:28 G	3671805.92	3671806.02	3671806.12	0.2677	0.1171
Mercury	5350-06-15 09:07 G	3675272.75	3675272.88	3675273.00	0.2655	0.1547
Mercury	5353-12-20 06:28 G	3676556.66	3676556.77	3676556.88	0.2679	0.0265
Mercury	5363-06-18 14:24 G	3680023.97	3680024.10	3680024.24	0.2653	0.1165
Mercury	5366-12-23 00:28 G	3681307.43	3681307.52	3681307.60	0.2680	0.1676
Mercury	5373-12-15 23:02 G	3683857.41	3683857.46	3683857.52	0.2675	0.2311
Mercury	5386-12-18 17:16 G	3688608.11	3688608.22	3688608.32	0.2677	0.0866
Mercury	5396-06-15 15:21 G	3692075.00	3692075.14	3692075.28	0.2655	0.1024
Mercury	5399-12-21 11:16 G	3693358.86	3693358.97	3693359.08	0.2679	0.0559
Mercury	5409-06-19 20:52 G	3696826.26	3696826.37	3696826.49	0.2653	0.1707

Mercury	5412-12-24 05:16 G	3698109.64	3698109.72	3698109.79	0.2680	0.1968
Venus	5414-07-07 16:19 G	3698670.02	3698670.18	3698670.33	0.2643	0.0096
Mercury	5419-12-18 04:04 G	3700659.59	3700659.67	3700659.74	0.2676	0.2005
Mercury	5432-12-19 22:04 G	3705410.31	3705410.42	3705410.53	0.2677	0.0568
Mercury	5442-06-17 21:50 G	3708877.26	3708877.41	3708877.56	0.2655	0.0494
Mercury	5445-12-22 16:04 G	3710161.07	3710161.17	3710161.28	0.2679	0.0860
Mercury	5455-06-21 03:21 G	3713628.56	3713628.64	3713628.72	0.2653	0.2244
Mercury	5458-12-25 10:04 G	3714911.86	3714911.92	3714911.98	0.2681	0.2257
Mercury	5465-12-18 08:52 G	3717461.79	3717461.87	3717461.96	0.2676	0.1704
Mercury	5475-06-15 23:02 G	3720928.44	3720928.46	3720928.48	0.2657	0.2626
Mercury	5478-12-21 03:07 G	3722212.52	3722212.63	3722212.74	0.2677	0.0276
Mercury	5488-06-18 04:19 G	3725679.52	3725679.68	3725679.83	0.2655	0.0077
Mercury	5491-12-23 20:52 G	3726963.28	3726963.37	3726963.47	0.2679	0.1159
Mercury	5504-12-26 14:52 G	3731714.09	3731714.12	3731714.15	0.2681	0.2552
Mercury	5511-12-20 13:40 G	3734263.98	3734264.07	3734264.17	0.2676	0.1406
Venus	5512-01-12 03:35 G	3734286.60	3734286.65	3734286.71	0.2690	0.2511
Venus	5520-01-09 17:31 G	3737206.10	3737206.23	3737206.36	0.2689	0.1428
Mercury	5521-06-17 05:16 G	3737730.63	3737730.72	3737730.82	0.2656	0.2102
Mercury	5524-12-22 07:55 G	3739014.72	3739014.83	3739014.94	0.2678	0.0046
Mercury	5534-06-20 10:33 G	3742481.79	3742481.94	3742482.09	0.2655	0.0586
Mercury	5537-12-25 01:55 G	3743765.48	3743765.58	3743765.67	0.2679	0.1449
Mercury	5544-12-18 00:28 G	3746315.49	3746315.52	3746315.55	0.2674	0.2553
Mercury	5557-12-20 18:43 G	3751066.18	3751066.28	3751066.38	0.2676	0.1101
Mercury	5567-06-18 11:45 G	3754532.86	3754532.99	3754533.11	0.2656	0.1583
Mercury	5570-12-23 12:43 G	3755816.92	3755817.03	3755817.14	0.2678	0.0328
Mercury	5580-06-20 17:02 G	3759284.07	3759284.21	3759284.35	0.2654	0.1122
Mercury	5583-12-26 06:43 G	3760567.70	3760567.78	3760567.86	0.2679	0.1742
Mercury	5590-12-19 05:16 G	3763117.67	3763117.72	3763117.78	0.2675	0.2248
Mercury	5603-12-21 23:31 G	3767868.37	3767868.48	3767868.59	0.2676	0.0802
Mercury	5613-06-18 18:00 G	3771335.11	3771335.25	3771335.39	0.2656	0.1056

Mercury	5616-12-23 17:31 G	3772619.12	3772619.23	3772619.34	0.2678	0.0627
Mercury	5626-06-21 23:31 G	3776086.36	3776086.48	3776086.60	0.2654	0.1656
Mercury	5629-12-26 11:31 G	3777369.91	3777369.98	3777370.05	0.2680	0.2035
Mercury	5636-12-19 10:19 G	3779919.85	3779919.93	3779920.00	0.2675	0.1945
Mercury	5649-12-22 04:19 G	3784670.57	3784670.68	3784670.79	0.2676	0.0509
Venus	5657-07-08 18:14 G	3787426.10	3787426.26	3787426.42	0.2644	0.0055
Mercury	5659-06-20 00:28 G	3788137.37	3788137.52	3788137.67	0.2656	0.0525
Mercury	5662-12-24 22:19 G	3789421.33	3789421.43	3789421.54	0.2678	0.0929
Mercury	5672-06-22 06:00 G	3792888.66	3792888.75	3792888.83	0.2654	0.2201
Mercury	5675-12-27 16:19 G	3794172.13	3794172.18	3794172.24	0.2680	0.2330
Mercury	5682-12-20 15:07 G	3796722.04	3796722.13	3796722.22	0.2675	0.1639
Mercury	5692-06-17 01:40 G	3800188.57	3800188.57	3800188.57	0.2658	0.2655
Mercury	5695-12-23 09:21 G	3801472.77	3801472.89	3801473.00	0.2677	0.0221
Mercury	5705-06-21 06:43 G	3804939.63	3804939.78	3804939.94	0.2656	0.0084
Mercury	5708-12-26 03:21 G	3806223.54	3806223.64	3806223.74	0.2678	0.1221
Mercury	5721-12-28 21:21 G	3810974.37	3810974.39	3810974.40	0.2680	0.2624
Mercury	5728-12-21 20:09 G	3813524.24	3813524.34	3813524.43	0.2675	0.1341
Mercury	5738-06-19 07:55 G	3816990.74	3816990.83	3816990.92	0.2657	0.2142
Mercury	5741-12-24 14:09 G	3818274.98	3818275.09	3818275.20	0.2677	0.0102
Mercury	5751-06-22 13:11 G	3821741.90	3821742.05	3821742.20	0.2656	0.0533
Mercury	5754-12-27 08:09 G	3823025.75	3823025.84	3823025.93	0.2678	0.1517
Venus	5755-01-13 03:35 G	3823042.57	3823042.65	3823042.72	0.2689	0.2326
Mercury	5761-12-20 06:43 G	3825575.74	3825575.78	3825575.82	0.2674	0.2485
Venus	5763-01-10 17:31 G	3825962.10	3825962.23	3825962.36	0.2687	0.1608
Mercury	5774-12-23 00:57 G	3830326.44	3830326.54	3830326.64	0.2675	0.1036
Mercury	5784-06-19 14:24 G	3833792.98	3833793.10	3833793.22	0.2657	0.1613
Mercury	5787-12-25 18:57 G	3835077.18	3835077.29	3835077.40	0.2677	0.0400
Mercury	5797-06-22 19:40 G	3838544.18	3838544.32	3838544.46	0.2655	0.1068
Mercury	5800-12-28 12:57 G	3839827.96	3839828.04	3839828.12	0.2679	0.1816
Mercury	5807-12-22 11:31 G	3842377.92	3842377.98	3842378.05	0.2674	0.2186

Mercury	5820-12-24 05:45 G	3847128.63	3847128.74	3847128.85	0.2675	0.0736
Mercury	5830-06-21 20:52 G	3850595.23	3850595.37	3850595.50	0.2657	0.1086
Mercury	5833-12-27 00:00 G	3851879.39	3851879.50	3851879.60	0.2677	0.0704
Mercury	5843-06-25 02:09 G	3855346.46	3855346.59	3855346.71	0.2655	0.1614
Mercury	5846-12-29 18:00 G	3856630.18	3856630.25	3856630.31	0.2679	0.2109
Mercury	5853-12-22 16:33 G	3859180.11	3859180.19	3859180.27	0.2674	0.1880
Mercury	5866-12-25 10:33 G	3863930.83	3863930.94	3863931.05	0.2676	0.0446
Mercury	5876-06-22 03:07 G	3867397.48	3867397.63	3867397.78	0.2657	0.0560
Mercury	5879-12-28 04:48 G	3868681.60	3868681.70	3868681.80	0.2677	0.0994
Mercury	5889-06-25 08:24 G	3872148.76	3872148.85	3872148.94	0.2655	0.2154
Mercury	5892-12-29 22:48 G	3873432.40	3873432.45	3873432.49	0.2679	0.2403
Mercury	5899-12-23 21:21 G	3875982.30	3875982.39	3875982.48	0.2674	0.1580
Venus	5900-07-11 20:24 G	3876182.19	3876182.35	3876182.51	0.2645	0.0031
Mercury	5912-12-26 15:35 G	3880733.04	3880733.15	3880733.26	0.2676	0.0140
Mercury	5922-06-24 09:21 G	3884199.74	3884199.89	3884200.05	0.2657	0.0070
Mercury	5925-12-29 09:35 G	3885483.80	3885483.90	3885484.00	0.2677	0.1292
Mercury	5945-12-25 02:24 G	3892784.50	3892784.60	3892784.69	0.2674	0.1276
Mercury	5955-06-22 10:48 G	3896250.86	3896250.95	3896251.04	0.2658	0.2157
Mercury	5958-12-27 20:24 G	3897535.24	3897535.35	3897535.46	0.2676	0.0170
Mercury	5968-06-24 15:50 G	3901002.01	3901002.16	3901002.31	0.2656	0.0496
Mercury	5971-12-30 14:24 G	3902286.02	3902286.10	3902286.19	0.2678	0.1591
Mercury	5978-12-23 12:57 G	3904836.00	3904836.04	3904836.08	0.2673	0.2422
Mercury	5991-12-26 07:11 G	3909586.70	3909586.80	3909586.90	0.2675	0.0969
Venus	5998-01-15 03:21 G	3911798.54	3911798.64	3911798.74	0.2687	0.2120

7TH MILLENNIUM CE

This is a list of transits visible from Earth in the 7th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	6001-06-22 17:02	G	3913053.09	3913053.21	3913053.33	0.2658	0.1644	
Mercury	6004-12-28 01:26	G	3914337.45	3914337.56	3914337.67	0.2676	0.0479	
Venus	6006-01-12 17:31	G	3914718.11	3914718.23	3914718.35	0.2686	0.1784	
Mercury	6014-06-25 22:19	G	3917804.29	3917804.43	3917804.57	0.2656	0.1036	
Mercury	6017-12-30 19:26	G	3919088.23	3919088.31	3919088.38	0.2678	0.1884	
Mercury	6024-12-23 17:45	G	3921638.18	3921638.24	3921638.31	0.2673	0.2120	
Mercury	6037-12-26 12:00	G	3926388.90	3926389.00	3926389.11	0.2675	0.0668	
Mercury	6047-06-23 23:31	G	3929855.34	3929855.48	3929855.61	0.2658	0.1125	
Mercury	6050-12-29 06:14	G	3931139.65	3931139.76	3931139.87	0.2676	0.0768	
Mercury	6060-06-26 04:33	G	3934606.57	3934606.69	3934606.82	0.2656	0.1565	
Mercury	6064-01-01 00:14	G	3935890.45	3935890.51	3935890.57	0.2678	0.2181	
Mercury	6070-12-24 22:48	G	3938440.37	3938440.45	3938440.53	0.2673	0.1814	
Mercury	6083-12-27 17:02	G	3943191.10	3943191.21	3943191.32	0.2675	0.0366	
Mercury	6093-06-24 05:45	G	3946657.59	3946657.74	3946657.89	0.2658	0.0602	
Mercury	6096-12-29 11:02	G	3947941.86	3947941.96	3947942.06	0.2676	0.1068	
Mercury	6106-06-28 11:02	G	3951408.87	3951408.96	3951409.05	0.2656	0.2102	
Mercury	6110-01-02 05:02	G	3952692.67	3952692.71	3952692.75	0.2678	0.2475	
Mercury	6116-12-26 03:35	G	3955242.56	3955242.65	3955242.75	0.2673	0.1507	
Mercury	6129-12-28 21:50	G	3959993.30	3959993.41	3959993.52	0.2675	0.0071	
Mercury	6139-06-26 12:14	G	3963459.86	3963460.01	3963460.16	0.2657	0.0071	
Mercury	6142-12-31 15:50	G	3964744.07	3964744.16	3964744.26	0.2677	0.1367	
Venus	6143-07-13 22:33	G	3964938.28	3964938.44	3964938.60	0.2647	0.0059	
Mercury	6149-12-24 14:09	G	3967294.09	3967294.09	3967294.10	0.2672	0.2665	
Mercury	6152-06-28 17:31	G	3968211.21	3968211.23	3968211.24	0.2656	0.2640	
Mercury	6162-12-27 08:38	G	3972044.76	3972044.86	3972044.96	0.2674	0.1204	

Mercury	6172-06-23 13:40 G	3975510.98	3975511.07	3975511.15	0.2659	0.2184
Mercury	6175-12-30 02:38 G	3976795.50	3976795.61	3976795.73	0.2675	0.0267
Mercury	6185-06-26 18:28 G	3980262.12	3980262.27	3980262.42	0.2657	0.0477
Mercury	6188-12-31 20:52 G	3981546.28	3981546.37	3981546.45	0.2677	0.1664
Mercury	6195-12-25 19:11 G	3984096.25	3984096.30	3984096.35	0.2672	0.2360
Mercury	6208-12-28 13:26 G	3988846.96	3988847.06	3988847.17	0.2674	0.0898
Mercury	6218-06-25 19:55 G	3992313.21	3992313.33	3992313.45	0.2659	0.1662
Mercury	6221-12-31 07:40 G	3993597.71	3993597.82	3993597.93	0.2675	0.0543
Mercury	6231-06-29 00:57 G	3997064.40	3997064.54	3997064.68	0.2657	0.0993
Mercury	6235-01-03 01:40 G	3998348.49	3998348.57	3998348.64	0.2677	0.1958
Venus	6241-01-17 03:35 G	4000554.55	4000554.65	4000554.76	0.2686	0.1971
Mercury	6241-12-27 00:00 G	4000898.43	4000898.50	4000898.58	0.2672	0.2054
Venus	6249-01-14 17:45 G	4003474.13	4003474.24	4003474.35	0.2684	0.1942
Mercury	6254-12-29 18:28 G	4005649.16	4005649.27	4005649.38	0.2674	0.0606
Mercury	6264-06-26 02:09 G	4009115.46	4009115.59	4009115.73	0.2659	0.1151
Mercury	6268-01-01 12:28 G	4010399.91	4010400.02	4010400.13	0.2675	0.0839
Mercury	6277-06-29 07:11 G	4013866.68	4013866.80	4013866.93	0.2657	0.1528
Mercury	6281-01-03 06:28 G	4015150.71	4015150.77	4015150.83	0.2677	0.2253
Mercury	6287-12-28 05:02 G	4017700.63	4017700.71	4017700.79	0.2672	0.1741
Mercury	6300-12-30 23:16 G	4022451.36	4022451.47	4022451.58	0.2674	0.0293
Mercury	6310-06-28 08:38 G	4025917.71	4025917.86	4025918.01	0.2658	0.0623
Mercury	6314-01-02 17:16 G	4027202.12	4027202.22	4027202.32	0.2676	0.1137
Mercury	6323-07-01 13:40 G	4030668.97	4030669.07	4030669.16	0.2657	0.2056
Mercury	6327-01-05 11:16 G	4031952.94	4031952.97	4031953.01	0.2677	0.2549
Mercury	6333-12-29 09:50 G	4034502.82	4034502.91	4034503.01	0.2673	0.1439
Mercury	6347-01-01 04:04 G	4039253.56	4039253.67	4039253.79	0.2674	0.0063
Mercury	6356-06-28 14:52 G	4042719.97	4042720.12	4042720.27	0.2658	0.0103
Mercury	6360-01-03 22:19 G	4044004.33	4044004.43	4044004.52	0.2676	0.1441
Mercury	6366-12-27 20:38 G	4046554.33	4046554.36	4046554.38	0.2671	0.2600
Mercury	6369-07-01 20:09 G	4047471.31	4047471.34	4047471.36	0.2656	0.2602

Mercury	6379-12-30 14:52 G	4051305.02	4051305.12	4051305.22	0.2673	0.1132
Venus	6386-07-16 00:28 G	4053694.36	4053694.52	4053694.68	0.2648	0.0010
Mercury	6389-06-26 16:19 G	4054771.10	4054771.18	4054771.27	0.2660	0.2207
Mercury	6393-01-01 09:07 G	4056055.76	4056055.88	4056055.99	0.2674	0.0328
Mercury	6402-06-29 21:07 G	4059522.23	4059522.38	4059522.53	0.2658	0.0426
Mercury	6406-01-04 03:07 G	4060806.55	4060806.63	4060806.71	0.2676	0.1735
Mercury	6412-12-28 01:26 G	4063356.50	4063356.56	4063356.62	0.2671	0.2288
Mercury	6425-12-30 19:40 G	4068107.22	4068107.32	4068107.43	0.2673	0.0830
Mercury	6435-06-27 22:48 G	4071573.33	4071573.45	4071573.56	0.2660	0.1691
Mercury	6439-01-02 13:55 G	4072857.97	4072858.08	4072858.19	0.2675	0.0611
Mercury	6448-06-30 03:35 G	4076324.51	4076324.65	4076324.79	0.2658	0.0953
Mercury	6452-01-05 07:55 G	4077608.76	4077608.83	4077608.90	0.2676	0.2036
Mercury	6458-12-29 06:28 G	4080158.69	4080158.77	4080158.84	0.2671	0.1981
Mercury	6472-01-01 00:43 G	4084909.42	4084909.53	4084909.64	0.2673	0.0533
Mercury	6481-06-28 05:02 G	4088375.58	4088375.71	4088375.85	0.2660	0.1166
Venus	6484-01-19 03:35 G	4089310.54	4089310.65	4089310.77	0.2684	0.1787
Mercury	6485-01-02 18:43 G	4089660.18	4089660.28	4089660.39	0.2675	0.0912
Venus	6492-01-16 18:00 G	4092230.15	4092230.25	4092230.35	0.2683	0.2095
Mercury	6494-07-01 09:50 G	4093126.79	4093126.91	4093127.04	0.2658	0.1490
Mercury	6498-01-05 12:57 G	4094410.98	4094411.04	4094411.09	0.2676	0.2329
Mercury	6504-12-30 11:16 G	4096960.88	4096960.97	4096961.06	0.2672	0.1673
Mercury	6518-01-02 05:31 G	4101711.62	4101711.73	4101711.84	0.2673	0.0222
Mercury	6527-06-30 11:16 G	4105177.83	4105177.97	4105178.12	0.2659	0.0656
Mercury	6531-01-04 23:45 G	4106462.39	4106462.49	4106462.59	0.2675	0.1217
Mercury	6540-07-02 16:19 G	4109929.08	4109929.18	4109929.28	0.2658	0.2025
Mercury	6544-01-07 17:45 G	4111213.22	4111213.24	4111213.26	0.2676	0.2625
Mercury	6550-12-31 16:04 G	4113763.08	4113763.17	4113763.27	0.2672	0.1372
Mercury	6564-01-03 10:19 G	4118513.82	4118513.93	4118514.05	0.2673	0.0103
Mercury	6573-06-30 17:45 G	4121980.08	4121980.24	4121980.39	0.2659	0.0147
Mercury	6577-01-05 04:33 G	4123264.60	4123264.69	4123264.78	0.2675	0.1511

Mercury	6583-12-30 02:38 G	4125814.58	4125814.61	4125814.65	0.2670	0.2530
Mercury	6586-07-03 22:33 G	4126731.40	4126731.44	4126731.48	0.2657	0.2552
Mercury	6596-12-31 21:07 G	4130565.27	4130565.38	4130565.48	0.2672	0.1066
Mercury	6606-06-29 19:11 G	4134031.22	4134031.30	4134031.38	0.2661	0.2230
Mercury	6610-01-04 15:21 G	4135316.03	4135316.14	4135316.25	0.2674	0.0387
Mercury	6619-07-03 00:00 G	4138782.35	4138782.50	4138782.65	0.2659	0.0389
Mercury	6623-01-07 09:21 G	4140066.81	4140066.89	4140066.97	0.2675	0.1811
Venus	6629-07-18 02:24 G	4142450.44	4142450.60	4142450.76	0.2649	0.0011
Mercury	6629-12-31 07:40 G	4142616.76	4142616.82	4142616.88	0.2670	0.2217
Mercury	6643-01-03 01:55 G	4147367.47	4147367.58	4147367.69	0.2672	0.0757
Mercury	6652-06-30 01:40 G	4150833.45	4150833.57	4150833.68	0.2661	0.1715
Mercury	6656-01-05 20:09 G	4152118.23	4152118.34	4152118.45	0.2674	0.0686
Mercury	6665-07-03 06:14 G	4155584.62	4155584.76	4155584.90	0.2659	0.0916
Mercury	6669-01-07 14:24 G	4156869.03	4156869.10	4156869.16	0.2675	0.2107
Mercury	6676-01-01 12:28 G	4159418.95	4159419.02	4159419.10	0.2671	0.1914
Mercury	6689-01-03 06:57 G	4164169.68	4164169.79	4164169.90	0.2672	0.0458
Mercury	6698-07-01 07:55 G	4167635.69	4167635.83	4167635.96	0.2661	0.1207
Mercury	6702-01-07 01:11 G	4168920.44	4168920.55	4168920.65	0.2674	0.0994
Mercury	6711-07-05 12:43 G	4172386.90	4172387.03	4172387.15	0.2659	0.1445
Mercury	6715-01-09 19:11 G	4173671.25	4173671.30	4173671.34	0.2675	0.2407
Mercury	6722-01-02 17:31 G	4176221.14	4176221.23	4176221.32	0.2671	0.1608
Venus	6727-01-22 04:04 G	4178066.55	4178066.67	4178066.80	0.2683	0.1648
Mercury	6735-01-05 11:45 G	4180971.88	4180971.99	4180972.10	0.2672	0.0149
Venus	6735-01-19 18:28 G	4180986.18	4180986.27	4180986.35	0.2681	0.2228
Mercury	6744-07-02 14:09 G	4184437.94	4184438.09	4184438.24	0.2660	0.0681
Mercury	6748-01-08 06:00 G	4185722.65	4185722.75	4185722.85	0.2674	0.1289
Mercury	6757-07-05 18:57 G	4189189.19	4189189.29	4189189.39	0.2658	0.1973
Mercury	6768-01-03 22:19 G	4193023.33	4193023.43	4193023.53	0.2671	0.1300
Mercury	6781-01-05 16:48 G	4197774.08	4197774.20	4197774.31	0.2673	0.0191
Mercury	6790-07-03 20:23 G	4201240.20	4201240.35	4201240.50	0.2660	0.0167

Mercury	6794-01-08 10:48 G	4202524.86	4202524.95	4202525.04	0.2674	0.1586
Mercury	6801-01-01 08:52 G	4205074.83	4205074.87	4205074.91	0.2670	0.2463
Mercury	6803-07-07 01:26 G	4205991.51	4205991.56	4205991.60	0.2658	0.2515
Mercury	6814-01-04 03:21 G	4209825.53	4209825.64	4209825.74	0.2671	0.0993
Mercury	6823-07-01 22:19 G	4213291.35	4213291.43	4213291.51	0.2662	0.2243
Mercury	6827-01-06 21:36 G	4214576.29	4214576.40	4214576.51	0.2673	0.0460
Mercury	6836-07-04 02:52 G	4218042.47	4218042.62	4218042.77	0.2660	0.0369
Mercury	6840-01-09 15:36 G	4219327.08	4219327.15	4219327.23	0.2674	0.1887
Mercury	6847-01-02 13:55 G	4221877.01	4221877.08	4221877.14	0.2670	0.2157
Mercury	6860-01-05 08:09 G	4226627.73	4226627.84	4226627.95	0.2671	0.0689
Mercury	6869-07-02 04:19 G	4230093.57	4230093.68	4230093.80	0.2662	0.1739
Venus	6872-07-19 04:04 G	4231206.51	4231206.67	4231206.83	0.2651	0.0022
Mercury	6873-01-07 02:23 G	4231378.50	4231378.60	4231378.71	0.2673	0.0762
Mercury	6882-07-05 09:07 G	4234844.74	4234844.88	4234845.02	0.2660	0.0884
Mercury	6886-01-09 20:38 G	4236129.29	4236129.36	4236129.42	0.2674	0.2186
Mercury	6893-01-02 18:43 G	4238679.20	4238679.28	4238679.36	0.2670	0.1844
Mercury	6906-01-06 13:11 G	4243429.93	4243430.05	4243430.16	0.2672	0.0389
Mercury	6915-07-04 10:48 G	4246895.81	4246895.95	4246896.08	0.2661	0.1225
Mercury	6919-01-09 07:26 G	4248180.70	4248180.81	4248180.91	0.2673	0.1066
Mercury	6928-07-06 15:21 G	4251647.01	4251647.14	4251647.27	0.2659	0.1408
Mercury	6932-01-12 01:26 G	4252931.52	4252931.56	4252931.60	0.2675	0.2480
Mercury	6939-01-04 23:45 G	4255481.40	4255481.49	4255481.58	0.2670	0.1537
Mercury	6952-01-07 18:00 G	4260232.14	4260232.25	4260232.36	0.2672	0.0078
Mercury	6961-07-04 17:02 G	4263698.06	4263698.21	4263698.35	0.2661	0.0717
Mercury	6965-01-09 12:14 G	4264982.91	4264983.01	4264983.10	0.2673	0.1361
Venus	6970-01-23 04:19 G	4266822.55	4266822.68	4266822.81	0.2682	0.1476
Mercury	6974-07-07 21:36 G	4268449.30	4268449.40	4268449.51	0.2659	0.1934
Venus	6978-01-20 18:43 G	4269742.21	4269742.28	4269742.35	0.2680	0.2387
Mercury	6985-01-05 04:33 G	4272283.59	4272283.69	4272283.79	0.2670	0.1226
Mercury	6998-01-07 22:48 G	4277034.34	4277034.45	4277034.57	0.2672	0.0255

8TH MILLENNIUM CE

This is a list of transits visible from Earth in the 8th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	7007-07-06 23:16 G		4280500.32	4280500.47	4280500.62	0.2661	0.0196	
Mercury	7011-01-11 17:02 G		4281785.13	4281785.21	4281785.30	0.2673	0.1664	
Mercury	7018-01-04 15:07 G		4284335.08	4284335.13	4284335.18	0.2669	0.2393	
Mercury	7020-07-09 04:04 G		4285251.61	4285251.67	4285251.72	0.2659	0.2459	
Mercury	7031-01-07 09:36 G		4289085.79	4289085.90	4289086.00	0.2670	0.0922	
Mercury	7040-07-04 01:11 G		4292551.47	4292551.55	4292551.63	0.2663	0.2260	
Mercury	7044-01-10 03:50 G		4293836.55	4293836.66	4293836.77	0.2672	0.0534	
Mercury	7053-07-07 05:31 G		4297302.58	4297302.73	4297302.88	0.2661	0.0327	
Mercury	7057-01-11 22:04 G		4298587.34	4298587.42	4298587.49	0.2674	0.1965	
Mercury	7064-01-05 20:09 G		4301137.27	4301137.34	4301137.40	0.2669	0.2085	
Mercury	7077-01-07 14:23 G		4305887.99	4305888.10	4305888.21	0.2671	0.0614	
Mercury	7086-07-05 07:26 G		4309353.70	4309353.81	4309353.92	0.2662	0.1753	
Mercury	7090-01-10 08:38 G		4310638.76	4310638.86	4310638.97	0.2672	0.0836	
Mercury	7099-07-08 12:00 G		4314104.85	4314105.00	4314105.14	0.2661	0.0853	
Mercury	7103-01-14 02:52 G		4315389.56	4315389.62	4315389.68	0.2674	0.2261	
Mercury	7110-01-07 00:57 G		4317939.46	4317939.54	4317939.62	0.2669	0.1775	
Venus	7115-07-23 05:45 G		4319962.58	4319962.74	4319962.90	0.2652	0.0054	
Mercury	7123-01-09 19:26 G		4322690.19	4322690.31	4322690.42	0.2671	0.0327	
Mercury	7132-07-06 13:40 G		4326155.94	4326156.07	4326156.20	0.2662	0.1250	

Mercury	7136-01-12 13:40 G	4327440.96	4327441.07	4327441.17	0.2672	0.1140
Mercury	7145-07-09 18:14 G	4330907.13	4330907.26	4330907.38	0.2660	0.1370
Mercury	7149-01-14 07:40 G	4332191.79	4332191.82	4332191.85	0.2674	0.2558
Mercury	7156-01-08 06:00 G	4334741.65	4334741.75	4334741.84	0.2669	0.1466
Mercury	7169-01-10 00:14 G	4339492.40	4339492.51	4339492.62	0.2671	0.0013
Mercury	7178-07-07 19:55 G	4342958.19	4342958.33	4342958.47	0.2662	0.0735
Mercury	7182-01-12 18:28 G	4344243.18	4344243.27	4344243.36	0.2672	0.1436
Mercury	7189-01-05 16:19 G	4346793.17	4346793.18	4346793.20	0.2668	0.2633
Mercury	7191-07-11 00:28 G	4347709.41	4347709.52	4347709.62	0.2660	0.1892
Mercury	7202-01-08 10:48 G	4351543.85	4351543.95	4351544.05	0.2669	0.1157
Venus	7213-01-25 04:48 G	4355578.56	4355578.70	4355578.83	0.2680	0.1337
Mercury	7215-01-11 05:02 G	4356294.60	4356294.71	4356294.83	0.2671	0.0316
Venus	7221-01-22 19:11 G	4358498.25	4358498.30	4358498.36	0.2679	0.2501
Mercury	7224-07-08 02:09 G	4359760.44	4359760.59	4359760.74	0.2662	0.0228
Mercury	7228-01-13 23:16 G	4361045.39	4361045.47	4361045.56	0.2673	0.1741
Mercury	7235-01-06 21:21 G	4363595.33	4363595.39	4363595.44	0.2668	0.2325
Mercury	7237-07-11 06:43 G	4364511.72	4364511.78	4364511.84	0.2660	0.2422
Mercury	7248-01-09 15:36 G	4368346.05	4368346.15	4368346.26	0.2670	0.0853
Mercury	7257-07-06 04:04 G	4371811.60	4371811.67	4371811.74	0.2663	0.2285
Mercury	7261-01-11 10:04 G	4373096.81	4373096.92	4373097.03	0.2671	0.0608
Mercury	7270-07-09 08:23 G	4376562.70	4376562.85	4376563.00	0.2662	0.0289
Mercury	7274-01-14 04:19 G	4377847.61	4377847.68	4377847.75	0.2673	0.2037
Mercury	7281-01-07 02:09 G	4380397.52	4380397.59	4380397.67	0.2668	0.2013
Mercury	7294-01-09 20:38 G	4385148.25	4385148.36	4385148.47	0.2670	0.0542
Mercury	7303-07-08 10:19 G	4388613.82	4388613.93	4388614.04	0.2663	0.1787
Mercury	7307-01-13 14:52 G	4389899.02	4389899.12	4389899.23	0.2671	0.0914
Mercury	7316-07-10 14:38 G	4393364.96	4393365.11	4393365.25	0.2661	0.0803
Mercury	7320-01-16 09:07 G	4394649.83	4394649.88	4394649.93	0.2673	0.2336
Mercury	7327-01-09 07:11 G	4397199.71	4397199.80	4397199.88	0.2668	0.1703
Mercury	7340-01-12 01:26 G	4401950.45	4401950.56	4401950.68	0.2670	0.0255

Mercury	7349-07-08 16:33 G	4405416.06	4405416.19	4405416.32	0.2663	0.1269
Mercury	7353-01-13 19:55 G	4406701.23	4406701.33	4406701.43	0.2671	0.1212
Venus	7358-07-24 07:11 G	4408718.64	4408718.80	4408718.96	0.2653	0.0100
Mercury	7362-07-11 20:52 G	4410167.24	4410167.37	4410167.50	0.2661	0.1325
Mercury	7366-01-16 13:55 G	4411452.07	4411452.08	4411452.10	0.2673	0.2638
Mercury	7373-01-09 12:00 G	4414001.91	4414002.00	4414002.10	0.2668	0.1393
Mercury	7386-01-12 06:28 G	4418752.66	4418752.77	4418752.88	0.2670	0.0073
Mercury	7395-07-09 22:48 G	4422218.31	4422218.45	4422218.59	0.2663	0.0761
Mercury	7399-01-15 00:43 G	4423503.44	4423503.53	4423503.62	0.2672	0.1517
Mercury	7406-01-08 22:33 G	4426053.41	4426053.44	4426053.46	0.2667	0.2571
Mercury	7408-07-13 03:21 G	4426969.53	4426969.64	4426969.74	0.2661	0.1859
Mercury	7419-01-11 17:02 G	4430804.10	4430804.21	4430804.31	0.2669	0.1086
Mercury	7432-01-14 11:16 G	4435554.86	4435554.97	4435555.09	0.2670	0.0387
Mercury	7441-07-11 05:02 G	4439020.56	4439020.71	4439020.86	0.2663	0.0251
Mercury	7445-01-16 05:31 G	4440305.65	4440305.73	4440305.82	0.2672	0.1818
Mercury	7452-01-10 03:21 G	4442855.58	4442855.64	4442855.70	0.2667	0.2255
Mercury	7454-07-14 09:36 G	4443771.83	4443771.90	4443771.96	0.2661	0.2381
Venus	7456-01-28 05:16 G	4444334.57	4444334.72	4444334.86	0.2679	0.1191
Venus	7464-01-25 19:40 G	4447254.30	4447254.32	4447254.34	0.2677	0.2649
Mercury	7465-01-11 21:50 G	4447606.30	4447606.41	4447606.52	0.2669	0.0781
Mercury	7474-07-09 07:11 G	4451071.72	4451071.80	4451071.87	0.2664	0.2303
Mercury	7478-01-14 16:19 G	4452357.07	4452357.18	4452357.29	0.2670	0.0681
Mercury	7487-07-12 11:16 G	4455822.82	4455822.97	4455823.12	0.2662	0.0261
Mercury	7491-01-17 10:33 G	4457107.87	4457107.94	4457108.00	0.2672	0.2116
Mercury	7498-01-10 08:23 G	4459657.77	4459657.85	4459657.93	0.2668	0.1943
Mercury	7511-01-14 02:52 G	4464408.51	4464408.62	4464408.73	0.2669	0.0467
Mercury	7520-07-10 13:11 G	4467873.95	4467874.05	4467874.16	0.2664	0.1796
Mercury	7524-01-16 21:07 G	4469159.28	4469159.38	4469159.49	0.2671	0.0985
Mercury	7533-07-13 17:31 G	4472625.09	4472625.23	4472625.37	0.2662	0.0777
Mercury	7537-01-18 15:21 G	4473910.10	4473910.14	4473910.19	0.2672	0.2412

Mercury	7544-01-12 13:11 G	4476459.97	4476460.05	4476460.14	0.2668	0.1632
Mercury	7557-01-14 07:40 G	4481210.71	4481210.82	4481210.94	0.2669	0.0183
Mercury	7566-07-11 19:26 G	4484676.18	4484676.31	4484676.44	0.2664	0.1299
Mercury	7570-01-17 02:09 G	4485961.49	4485961.59	4485961.69	0.2671	0.1292
Mercury	7579-07-14 23:45 G	4489427.36	4489427.49	4489427.62	0.2662	0.1297
Mercury	7590-01-12 18:14 G	4493262.16	4493262.26	4493262.36	0.2668	0.1322
Venus	7601-07-26 08:38 G	4497474.70	4497474.86	4497475.02	0.2655	0.0161
Mercury	7603-01-15 12:43 G	4498012.92	4498013.03	4498013.14	0.2669	0.0152
Mercury	7612-07-12 01:40 G	4501478.43	4501478.57	4501478.71	0.2664	0.0791
Mercury	7616-01-18 06:57 G	4502763.70	4502763.79	4502763.88	0.2671	0.1592
Mercury	7623-01-11 04:33 G	4505313.66	4505313.69	4505313.73	0.2666	0.2496
Mercury	7625-07-15 06:00 G	4506229.64	4506229.75	4506229.86	0.2662	0.1811
Mercury	7636-01-13 23:16 G	4510064.36	4510064.47	4510064.57	0.2668	0.1014
Mercury	7649-01-15 17:31 G	4514815.12	4514815.23	4514815.35	0.2670	0.0460
Mercury	7658-07-13 07:55 G	4518280.68	4518280.83	4518280.98	0.2664	0.0283
Mercury	7662-01-18 11:45 G	4519565.92	4519565.99	4519566.07	0.2671	0.1899
Mercury	7669-01-11 09:36 G	4522115.84	4522115.90	4522115.96	0.2667	0.2183
Mercury	7671-07-16 12:14 G	4523031.94	4523032.01	4523032.08	0.2662	0.2334
Mercury	7682-01-14 04:04 G	4526866.56	4526866.67	4526866.78	0.2668	0.0700
Mercury	7691-07-11 10:19 G	4530331.85	4530331.93	4530332.00	0.2665	0.2305
Mercury	7695-01-16 22:33 G	4531617.33	4531617.44	4531617.55	0.2670	0.0762
Venus	7699-01-29 05:45 G	4533090.59	4533090.74	4533090.88	0.2677	0.1064
Mercury	7704-07-14 14:09 G	4535082.94	4535083.09	4535083.24	0.2663	0.0250
Mercury	7708-01-20 16:48 G	4536368.14	4536368.20	4536368.26	0.2671	0.2194
Mercury	7715-01-13 14:38 G	4538918.03	4538918.11	4538918.19	0.2667	0.1872
Mercury	7728-01-16 09:07 G	4543668.76	4543668.88	4543668.99	0.2668	0.0396
Mercury	7737-07-12 16:19 G	4547134.07	4547134.18	4547134.29	0.2665	0.1813
Mercury	7741-01-18 03:21 G	4548419.54	4548419.64	4548419.75	0.2670	0.1066
Mercury	7750-07-15 20:23 G	4551885.21	4551885.35	4551885.50	0.2663	0.0753
Mercury	7754-01-20 21:36 G	4553170.37	4553170.40	4553170.44	0.2671	0.2500

Mercury	7761-01-13 19:26 G	4555720.22	4555720.31	4555720.40	0.2667	0.1562
Mercury	7774-01-16 13:55 G	4560470.97	4560471.08	4560471.20	0.2668	0.0091
Mercury	7783-07-13 22:33 G	4563936.31	4563936.44	4563936.57	0.2665	0.1309
Mercury	7787-01-19 08:23 G	4565221.75	4565221.85	4565221.94	0.2670	0.1372
Mercury	7796-07-16 02:38 G	4568687.48	4568687.61	4568687.74	0.2663	0.1264
Mercury	7807-01-16 00:28 G	4572522.42	4572522.52	4572522.62	0.2667	0.1246
Mercury	7820-01-18 18:57 G	4577273.17	4577273.29	4577273.40	0.2669	0.0237
Mercury	7829-07-15 04:48 G	4580738.56	4580738.70	4580738.84	0.2664	0.0812
Mercury	7833-01-20 13:11 G	4582023.96	4582024.05	4582024.14	0.2670	0.1671
Mercury	7840-01-14 10:48 G	4584573.91	4584573.95	4584574.00	0.2666	0.2422
Mercury	7842-07-18 08:52 G	4585489.76	4585489.87	4585489.98	0.2663	0.1779
Venus	7844-07-28 10:04 G	4586230.77	4586230.92	4586231.08	0.2656	0.0217
Mercury	7853-01-16 05:16 G	4589324.62	4589324.72	4589324.83	0.2667	0.0937
Mercury	7866-01-18 23:45 G	4594075.38	4594075.49	4594075.60	0.2669	0.0536
Mercury	7875-07-16 11:02 G	4597540.81	4597540.96	4597541.10	0.2664	0.0301
Mercury	7879-01-21 18:14 G	4598826.18	4598826.26	4598826.33	0.2670	0.1976
Mercury	7886-01-14 15:50 G	4601376.09	4601376.16	4601376.23	0.2666	0.2109
Mercury	7888-07-18 15:07 G	4602292.06	4602292.13	4602292.20	0.2662	0.2298
Mercury	7899-01-17 10:19 G	4606126.82	4606126.93	4606127.04	0.2667	0.0621
Mercury	7908-07-14 13:11 G	4609591.98	4609592.05	4609592.12	0.2666	0.2325
Mercury	7912-01-21 04:48 G	4610877.59	4610877.70	4610877.80	0.2669	0.0842
Mercury	7921-07-17 17:02 G	4614343.06	4614343.21	4614343.36	0.2664	0.0208
Mercury	7925-01-22 23:02 G	4615628.41	4615628.46	4615628.52	0.2671	0.2282
Mercury	7932-01-16 20:38 G	4618178.28	4618178.36	4618178.45	0.2666	0.1797
Venus	7942-02-01 06:43 G	4621846.63	4621846.78	4621846.92	0.2676	0.0962
Mercury	7945-01-18 15:07 G	4622929.02	4622929.13	4622929.25	0.2668	0.0331
Mercury	7954-07-15 19:26 G	4626394.20	4626394.31	4626394.42	0.2666	0.1823
Mercury	7958-01-21 09:36 G	4627679.80	4627679.90	4627680.00	0.2669	0.1150
Mercury	7967-07-18 23:16 G	4631145.33	4631145.47	4631145.62	0.2664	0.0718
Mercury	7971-01-24 04:04 G	4632430.64	4632430.67	4632430.69	0.2671	0.2582

Mercury	7978-01-17 01:40 G	4634980.47	4634980.57	4634980.66	0.2666	0.1481
Mercury	7991-01-19 20:09 G	4639731.23	4639731.34	4639731.45	0.2668	0.0006
Mercury	8000-07-16 01:40 G	4643196.44	4643196.57	4643196.70	0.2665	0.1323

9TH MILLENNIUM CE

This is a list of transits visible from Earth in the 9th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	8004-01-22 14:38 G		4644482.01	4644482.11	4644482.20	0.2669	0.1450	
Mercury	8013-07-19 05:31 G		4647947.60	4647947.73	4647947.86	0.2664	0.1232	
Mercury	8024-01-18 06:28 G		4651782.67	4651782.77	4651782.88	0.2666	0.1174	
Mercury	8037-01-20 01:11 G		4656533.43	4656533.55	4656533.66	0.2668	0.0321	
Mercury	8046-07-17 07:55 G		4659998.69	4659998.83	4659998.97	0.2665	0.0821	
Mercury	8050-01-22 19:26 G		4661284.23	4661284.31	4661284.40	0.2669	0.1755	
Mercury	8057-01-15 17:02 G		4663834.15	4663834.21	4663834.26	0.2665	0.2354	
Mercury	8059-07-20 11:45 G		4664749.88	4664749.99	4664750.11	0.2663	0.1756	
Mercury	8070-01-18 11:31 G		4668584.87	4668584.98	4668585.09	0.2666	0.0857	
Mercury	8083-01-21 06:00 G		4673335.64	4673335.75	4673335.86	0.2668	0.0615	
Venus	8087-07-30 11:16 G		4674986.82	4674986.97	4674987.13	0.2658	0.0296	
Mercury	8092-07-17 13:55 G		4676800.93	4676801.08	4676801.23	0.2665	0.0323	
Mercury	8096-01-24 00:28 G		4678086.45	4678086.52	4678086.59	0.2670	0.2060	
Mercury	8103-01-17 21:50 G		4680636.34	4680636.41	4680636.48	0.2665	0.2035	
Mercury	8105-07-21 18:00 G		4681552.18	4681552.25	4681552.33	0.2663	0.2273	
Mercury	8116-01-20 16:33 G		4685387.08	4685387.19	4685387.30	0.2667	0.0551	

Mercury	8125-07-16 16:19 G	4688852.12	4688852.18	4688852.25	0.2667	0.2333
Mercury	8129-01-22 11:02 G	4690137.85	4690137.96	4690138.06	0.2668	0.0923
Mercury	8138-07-19 20:09 G	4693603.19	4693603.34	4693603.49	0.2665	0.0188
Mercury	8142-01-25 05:16 G	4694888.67	4694888.72	4694888.77	0.2670	0.2359
Mercury	8149-01-18 02:52 G	4697438.53	4697438.62	4697438.71	0.2665	0.1718
Mercury	8162-01-20 21:21 G	4702189.28	4702189.39	4702189.51	0.2667	0.0243
Mercury	8171-07-17 22:33 G	4705654.33	4705654.44	4705654.54	0.2666	0.1838
Mercury	8175-01-23 15:50 G	4706940.06	4706940.16	4706940.26	0.2668	0.1225
Mercury	8184-07-20 02:23 G	4710405.45	4710405.60	4710405.74	0.2665	0.0691
Venus	8185-02-02 07:26 G	4710602.66	4710602.81	4710602.96	0.2675	0.0850
Mercury	8188-01-26 10:04 G	4711690.92	4711690.92	4711690.93	0.2670	0.2661
Mercury	8195-01-19 07:55 G	4714240.73	4714240.83	4714240.92	0.2665	0.1404
Mercury	8208-01-23 02:23 G	4718991.49	4718991.60	4718991.71	0.2667	0.0080
Mercury	8217-07-19 04:48 G	4722456.57	4722456.70	4722456.82	0.2666	0.1343
Mercury	8221-01-24 20:52 G	4723742.27	4723742.37	4723742.46	0.2669	0.1535
Mercury	8228-01-18 18:00 G	4726292.23	4726292.25	4726292.28	0.2664	0.2593
Mercury	8230-07-22 08:38 G	4727207.73	4727207.86	4727207.99	0.2664	0.1207
Mercury	8241-01-20 12:43 G	4731042.93	4731043.03	4731043.14	0.2665	0.1091
Mercury	8254-01-23 07:26 G	4735793.69	4735793.81	4735793.92	0.2667	0.0400
Mercury	8263-07-20 10:48 G	4739258.81	4739258.95	4739259.09	0.2666	0.0843
Mercury	8267-01-26 01:40 G	4740544.49	4740544.57	4740544.65	0.2669	0.1838
Mercury	8274-01-18 23:02 G	4743094.40	4743094.46	4743094.52	0.2664	0.2276
Mercury	8276-07-22 14:52 G	4744010.00	4744010.12	4744010.23	0.2664	0.1716
Mercury	8287-01-21 17:45 G	4747845.13	4747845.24	4747845.35	0.2666	0.0778
Mercury	8300-01-24 12:14 G	4752595.90	4752596.01	4752596.12	0.2667	0.0693
Mercury	8309-07-21 17:02 G	4756061.07	4756061.21	4756061.36	0.2666	0.0337
Mercury	8313-01-27 06:43 G	4757346.71	4757346.78	4757346.84	0.2669	0.2144
Mercury	8320-01-21 04:04 G	4759896.59	4759896.67	4759896.74	0.2664	0.1957
Mercury	8322-07-24 21:07 G	4760812.30	4760812.38	4760812.46	0.2664	0.2235
Venus	8330-08-02 12:57 G	4763742.88	4763743.04	4763743.19	0.2659	0.0362

Mercury	8333-01-22 22:33 G	4764647.33	4764647.44	4764647.56	0.2666	0.0477
Mercury	8342-07-19 19:40 G	4768112.25	4768112.32	4768112.39	0.2667	0.2332
Mercury	8346-01-25 17:02 G	4769398.11	4769398.21	4769398.32	0.2667	0.1006
Mercury	8355-07-22 23:16 G	4772863.32	4772863.47	4772863.62	0.2666	0.0168
Mercury	8359-01-28 11:31 G	4774148.94	4774148.98	4774149.02	0.2669	0.2443
Mercury	8366-01-21 09:07 G	4776698.79	4776698.88	4776698.97	0.2665	0.1646
Mercury	8379-01-24 03:36 G	4781449.54	4781449.65	4781449.77	0.2666	0.0156
Mercury	8388-07-20 01:40 G	4784914.47	4784914.57	4784914.68	0.2667	0.1844
Mercury	8392-01-26 22:04 G	4786200.32	4786200.42	4786200.52	0.2668	0.1309
Mercury	8401-07-23 05:31 G	4789665.58	4789665.73	4789665.87	0.2665	0.0678
Mercury	8412-01-22 13:55 G	4793500.98	4793501.08	4793501.18	0.2665	0.1328
Mercury	8425-01-24 08:38 G	4798251.74	4798251.86	4798251.97	0.2666	0.0178
Venus	8428-02-05 08:23 G	4799358.70	4799358.85	4799359.00	0.2673	0.0769
Mercury	8434-07-21 07:55 G	4801716.70	4801716.83	4801716.96	0.2667	0.1350
Mercury	8438-01-27 03:07 G	4803002.54	4803002.63	4803002.71	0.2668	0.1618
Mercury	8445-01-20 00:14 G	4805552.47	4805552.51	4805552.54	0.2663	0.2518
Mercury	8447-07-24 11:31 G	4806467.85	4806467.98	4806468.12	0.2665	0.1180
Mercury	8458-01-22 18:57 G	4810303.18	4810303.29	4810303.39	0.2665	0.1012
Mercury	8471-01-25 13:26 G	4815053.95	4815054.06	4815054.17	0.2667	0.0467
Mercury	8480-07-21 13:55 G	4818518.95	4818519.08	4818519.22	0.2667	0.0860
Mercury	8484-01-28 07:55 G	4819804.75	4819804.83	4819804.91	0.2668	0.1920
Mercury	8491-01-21 05:16 G	4822354.65	4822354.72	4822354.78	0.2664	0.2196
Mercury	8493-07-24 17:45 G	4823270.13	4823270.24	4823270.35	0.2665	0.1690
Mercury	8504-01-24 23:45 G	4827105.38	4827105.49	4827105.61	0.2665	0.0708
Mercury	8517-01-26 18:28 G	4831856.16	4831856.27	4831856.38	0.2667	0.0779
Mercury	8526-07-23 20:09 G	4835321.19	4835321.34	4835321.48	0.2667	0.0364
Mercury	8530-01-29 12:57 G	4836606.98	4836607.04	4836607.10	0.2668	0.2227
Mercury	8537-01-22 10:04 G	4839156.84	4839156.92	4839157.00	0.2664	0.1885
Mercury	8539-07-27 00:00 G	4840072.42	4840072.50	4840072.58	0.2665	0.2197
Mercury	8550-01-25 04:48 G	4843907.59	4843907.70	4843907.82	0.2665	0.0386

Mercury	8559-07-21 22:48 G	4847372.39	4847372.45	4847372.52	0.2668	0.2339
Mercury	8563-01-27 23:16 G	4848658.37	4848658.47	4848658.58	0.2667	0.1089
Mercury	8572-07-24 02:23 G	4852123.45	4852123.60	4852123.74	0.2667	0.0158
Venus	8573-08-03 13:40 G	4852498.92	4852499.07	4852499.23	0.2660	0.0474
Mercury	8576-01-30 17:45 G	4853409.21	4853409.24	4853409.27	0.2668	0.2531
Mercury	8583-01-23 15:07 G	4855959.04	4855959.13	4855959.22	0.2664	0.1565
Mercury	8596-01-26 09:50 G	4860709.79	4860709.91	4860710.02	0.2665	0.0107
Mercury	8605-07-23 05:02 G	4864174.60	4864174.71	4864174.81	0.2668	0.1848
Mercury	8609-01-29 04:19 G	4865460.58	4865460.68	4865460.78	0.2667	0.1394
Mercury	8618-07-26 08:23 G	4868925.71	4868925.85	4868926.00	0.2666	0.0653
Mercury	8629-01-24 20:09 G	4872761.24	4872761.34	4872761.44	0.2664	0.1254
Mercury	8642-01-27 14:38 G	4877512.00	4877512.11	4877512.23	0.2666	0.0245
Mercury	8651-07-24 11:02 G	4880976.84	4880976.96	4880977.09	0.2668	0.1360
Mercury	8655-01-30 09:07 G	4882262.80	4882262.88	4882262.97	0.2667	0.1703
Mercury	8662-01-23 06:14 G	4884812.72	4884812.76	4884812.81	0.2663	0.2443
Mercury	8664-07-26 14:38 G	4885727.98	4885728.11	4885728.24	0.2666	0.1157
Venus	8671-02-07 09:21 G	4888114.74	4888114.89	4888115.04	0.2672	0.0666
Mercury	8675-01-26 00:57 G	4889563.44	4889563.54	4889563.65	0.2664	0.0939
Mercury	8688-01-28 19:40 G	4894314.21	4894314.32	4894314.43	0.2666	0.0547
Mercury	8697-07-24 17:16 G	4897779.08	4897779.22	4897779.35	0.2668	0.0873
Mercury	8701-01-31 14:09 G	4899065.02	4899065.09	4899065.16	0.2667	0.2006
Mercury	8708-01-25 11:16 G	4901614.90	4901614.97	4901615.04	0.2663	0.2125
Mercury	8710-07-28 20:52 G	4902530.25	4902530.37	4902530.48	0.2666	0.1660
Mercury	8721-01-27 06:00 G	4906365.64	4906365.75	4906365.86	0.2664	0.0620
Mercury	8734-01-30 00:43 G	4911116.42	4911116.53	4911116.63	0.2666	0.0865
Mercury	8743-07-26 23:16 G	4914581.33	4914581.47	4914581.62	0.2667	0.0373
Mercury	8747-02-01 18:57 G	4915867.24	4915867.29	4915867.35	0.2667	0.2312
Mercury	8754-01-25 16:19 G	4918417.09	4918417.18	4918417.26	0.2663	0.1805
Mercury	8756-07-29 02:52 G	4919332.54	4919332.62	4919332.71	0.2666	0.2173
Mercury	8767-01-28 11:02 G	4923167.84	4923167.96	4923168.07	0.2665	0.0317

Mercury	8776-07-24 02:09 G	4926632.52	4926632.59	4926632.65	0.2669	0.2350
Mercury	8780-01-31 05:31 G	4927918.63	4927918.73	4927918.83	0.2666	0.1168
Mercury	8789-07-27 05:16 G	4931383.58	4931383.72	4931383.87	0.2667	0.0151
Mercury	8793-02-02 00:00 G	4932669.48	4932669.50	4932669.52	0.2668	0.2615
Mercury	8800-01-26 21:07 G	4935219.29	4935219.38	4935219.48	0.2663	0.1493
Mercury	8813-01-28 15:50 G	4939970.05	4939970.16	4939970.28	0.2665	0.0087
Venus	8816-08-05 14:52 G	4941254.97	4941255.12	4941255.28	0.2662	0.0562
Mercury	8822-07-25 08:09 G	4943434.74	4943434.84	4943434.94	0.2669	0.1866
Mercury	8826-01-31 10:33 G	4944720.84	4944720.94	4944721.03	0.2666	0.1478
Mercury	8835-07-28 11:31 G	4948185.84	4948185.98	4948186.12	0.2667	0.0621
Mercury	8846-01-27 02:09 G	4952021.49	4952021.59	4952021.69	0.2663	0.1170
Mercury	8859-01-29 20:52 G	4956772.26	4956772.37	4956772.48	0.2665	0.0319
Mercury	8868-07-25 14:09 G	4960236.97	4960237.09	4960237.22	0.2669	0.1378
Mercury	8872-02-01 15:21 G	4961523.06	4961523.14	4961523.23	0.2666	0.1786
Mercury	8879-01-25 12:14 G	4964072.96	4964073.01	4964073.07	0.2662	0.2370
Mercury	8881-07-28 17:45 G	4964988.10	4964988.24	4964988.37	0.2667	0.1122
Mercury	8892-01-28 07:11 G	4968823.69	4968823.80	4968823.91	0.2664	0.0856
Mercury	8905-01-31 01:55 G	4973574.47	4973574.58	4973574.69	0.2665	0.0637
Venus	8914-02-09 10:19 G	4976870.78	4976870.93	4976871.09	0.2671	0.0584
Mercury	8914-07-27 20:23 G	4977039.21	4977039.35	4977039.49	0.2668	0.0876
Mercury	8918-02-02 20:23 G	4978325.28	4978325.35	4978325.42	0.2666	0.2090
Mercury	8925-01-26 17:16 G	4980875.15	4980875.22	4980875.30	0.2662	0.2051
Mercury	8927-07-31 00:00 G	4981790.38	4981790.50	4981790.61	0.2667	0.1634
Mercury	8938-01-29 12:14 G	4985625.89	4985626.01	4985626.12	0.2664	0.0546
Mercury	8951-02-01 06:43 G	4990376.68	4990376.78	4990376.89	0.2665	0.0943
Mercury	8960-07-28 02:23 G	4993841.46	4993841.60	4993841.75	0.2668	0.0394
Mercury	8964-02-04 01:11 G	4995127.51	4995127.55	4995127.60	0.2667	0.2396
Mercury	8971-01-27 22:19 G	4997677.34	4997677.43	4997677.52	0.2662	0.1733
Mercury	8973-07-31 06:00 G	4998592.67	4998592.75	4998592.84	0.2667	0.2144
Mercury	8984-01-30 17:02 G	5002428.10	5002428.21	5002428.33	0.2664	0.0239

Mercury	8993-07-26 05:16 G	5005892.66	5005892.72	5005892.79	0.2670	0.2354
Mercury	8997-02-01 11:45 G	5007178.89	5007178.99	5007179.09	0.2665	0.1252

10TH MILLENNIUM CE

This is a list of transits visible from Earth in the 10th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	9006-07-30 08:38 G		5010643.71	5010643.86	5010644.01	0.2668	0.0109	
Mercury	9017-01-29 03:21 G		5014479.54	5014479.64	5014479.74	0.2663	0.1409	
Mercury	9019-08-02 12:14 G		5015395.00	5015395.01	5015395.02	0.2666	0.2647	
Mercury	9030-01-31 22:04 G		5019230.30	5019230.42	5019230.53	0.2664	0.0087	
Mercury	9039-07-28 11:31 G		5022694.88	5022694.98	5022695.08	0.2669	0.1869	
Mercury	9043-02-03 16:33 G		5023981.10	5023981.19	5023981.28	0.2666	0.1556	
Mercury	9050-01-27 13:26 G		5026531.04	5026531.06	5026531.08	0.2661	0.2612	
Mercury	9052-07-30 14:38 G		5027445.97	5027446.11	5027446.25	0.2668	0.0599	
Venus	9059-08-08 15:36 G		5030011.00	5030011.15	5030011.30	0.2663	0.0719	
Mercury	9063-01-30 08:23 G		5031281.74	5031281.85	5031281.95	0.2663	0.1094	
Mercury	9076-02-02 03:07 G		5036032.51	5036032.63	5036032.74	0.2664	0.0411	
Mercury	9085-07-28 17:31 G		5039497.11	5039497.23	5039497.35	0.2669	0.1381	
Mercury	9089-02-03 21:36 G		5040783.32	5040783.40	5040783.48	0.2666	0.1866	
Mercury	9096-01-28 18:28 G		5043333.21	5043333.27	5043333.33	0.2661	0.2293	
Mercury	9098-07-31 20:52 G		5044248.23	5044248.37	5044248.50	0.2668	0.1103	
Mercury	9109-01-31 13:11 G		5048083.94	5048084.05	5048084.16	0.2663	0.0779	
Mercury	9122-02-03 07:55 G		5052834.72	5052834.83	5052834.94	0.2664	0.0713	

Mercury	9131-07-30 23:31 G	5056299.35	5056299.48	5056299.62	0.2669	0.0902
Mercury	9135-02-06 02:23 G	5057585.54	5057585.60	5057585.67	0.2666	0.2176
Mercury	9142-01-29 23:31 G	5060135.40	5060135.48	5060135.55	0.2662	0.1973
Mercury	9144-08-02 02:52 G	5061050.50	5061050.62	5061050.74	0.2667	0.1601
Mercury	9155-02-01 18:14 G	5064886.15	5064886.26	5064886.37	0.2663	0.0462
Venus	9157-02-11 11:31 G	5065626.83	5065626.98	5065627.14	0.2669	0.0510
Mercury	9168-02-04 12:57 G	5069636.93	5069637.04	5069637.14	0.2665	0.1025
Mercury	9177-07-31 05:45 G	5073101.59	5073101.74	5073101.88	0.2669	0.0416
Mercury	9181-02-06 07:26 G	5074387.77	5074387.81	5074387.85	0.2666	0.2481
Mercury	9188-01-31 04:33 G	5076937.60	5076937.69	5076937.78	0.2662	0.1652
Mercury	9190-08-03 09:07 G	5077852.79	5077852.88	5077852.97	0.2667	0.2100
Mercury	9201-02-01 23:16 G	5081688.35	5081688.47	5081688.58	0.2663	0.0160
Mercury	9210-07-29 08:52 G	5085152.80	5085152.87	5085152.93	0.2670	0.2347
Mercury	9214-02-04 17:45 G	5086439.15	5086439.24	5086439.34	0.2665	0.1333
Mercury	9223-08-01 11:45 G	5089903.84	5089903.99	5089904.14	0.2669	0.0083
Mercury	9234-01-31 09:21 G	5093739.79	5093739.89	5093739.99	0.2662	0.1333
Mercury	9236-08-03 15:07 G	5094655.11	5094655.13	5094655.16	0.2667	0.2608
Mercury	9247-02-03 04:04 G	5098490.56	5098490.67	5098490.79	0.2663	0.0188
Mercury	9256-07-29 14:52 G	5101955.01	5101955.12	5101955.22	0.2670	0.1871
Mercury	9260-02-05 22:48 G	5103241.36	5103241.45	5103241.54	0.2665	0.1645
Mercury	9267-01-29 19:26 G	5105791.28	5105791.31	5105791.34	0.2661	0.2541
Mercury	9269-08-01 18:00 G	5106706.10	5106706.25	5106706.39	0.2669	0.0592
Mercury	9280-02-01 14:23 G	5110541.99	5110542.10	5110542.21	0.2662	0.1016
Mercury	9293-02-03 09:07 G	5115292.77	5115292.88	5115292.99	0.2663	0.0482
Mercury	9302-07-31 20:52 G	5118757.24	5118757.37	5118757.49	0.2670	0.1393
Venus	9302-08-10 16:33 G	5118767.04	5118767.19	5118767.34	0.2664	0.0837
Mercury	9306-02-07 03:50 G	5120043.58	5120043.66	5120043.73	0.2665	0.1953
Mercury	9313-01-31 00:28 G	5122593.46	5122593.52	5122593.58	0.2661	0.2216
Mercury	9315-08-04 00:00 G	5123508.36	5123508.50	5123508.63	0.2668	0.1078
Mercury	9326-02-02 19:26 G	5127344.19	5127344.31	5127344.42	0.2662	0.0706

Mercury	9339-02-05 14:09 G	5132094.98	5132095.09	5132095.20	0.2664	0.0795
Mercury	9348-08-01 02:52 G	5135559.48	5135559.62	5135559.75	0.2670	0.0909
Mercury	9352-02-08 08:38 G	5136845.80	5136845.86	5136845.92	0.2665	0.2261
Mercury	9359-02-01 05:31 G	5139395.65	5139395.73	5139395.81	0.2661	0.1892
Mercury	9361-08-04 06:00 G	5140310.64	5140310.75	5140310.87	0.2668	0.1579
Mercury	9372-02-04 00:14 G	5144146.40	5144146.51	5144146.63	0.2662	0.0387
Mercury	9385-02-05 18:57 G	5148897.19	5148897.29	5148897.40	0.2664	0.1108
Mercury	9394-08-02 08:52 G	5152361.73	5152361.87	5152362.01	0.2670	0.0424
Mercury	9398-02-08 13:40 G	5153648.04	5153648.07	5153648.10	0.2665	0.2565
Venus	9400-02-13 12:43 G	5154382.87	5154383.03	5154383.19	0.2668	0.0422
Mercury	9405-02-02 10:33 G	5156197.84	5156197.94	5156198.03	0.2661	0.1574
Mercury	9407-08-06 12:14 G	5157112.92	5157113.01	5157113.10	0.2668	0.2076
Mercury	9418-02-05 05:16 G	5160948.61	5160948.72	5160948.84	0.2663	0.0073
Mercury	9427-08-01 12:00 G	5164412.94	5164413.00	5164413.07	0.2671	0.2361
Mercury	9431-02-08 00:00 G	5165699.41	5165699.50	5165699.60	0.2664	0.1423
Mercury	9440-08-03 14:52 G	5169163.98	5169164.12	5169164.27	0.2669	0.0112
Mercury	9451-02-03 15:21 G	5173000.04	5173000.14	5173000.25	0.2661	0.1259
Mercury	9453-08-06 18:14 G	5173915.23	5173915.26	5173915.30	0.2668	0.2585
Mercury	9464-02-06 10:19 G	5177750.81	5177750.93	5177751.04	0.2663	0.0255
Mercury	9473-08-01 18:00 G	5181215.15	5181215.25	5181215.36	0.2671	0.1881
Mercury	9477-02-08 05:02 G	5182501.62	5182501.71	5182501.79	0.2664	0.1732
Mercury	9484-02-02 01:26 G	5185051.52	5185051.56	5185051.60	0.2660	0.2464
Mercury	9486-08-04 21:07 G	5185966.23	5185966.38	5185966.52	0.2669	0.0559
Mercury	9497-02-03 20:23 G	5189802.24	5189802.35	5189802.46	0.2661	0.0936
Mercury	9510-02-07 15:21 G	5194553.02	5194553.14	5194553.25	0.2663	0.0570
Mercury	9519-08-04 00:14 G	5198017.38	5198017.51	5198017.63	0.2671	0.1399
Mercury	9523-02-10 09:50 G	5199303.84	5199303.91	5199303.99	0.2664	0.2044
Mercury	9530-02-03 06:28 G	5201853.70	5201853.77	5201853.84	0.2660	0.2139
Mercury	9532-08-06 03:07 G	5202768.50	5202768.63	5202768.77	0.2669	0.1061
Mercury	9543-02-06 01:26 G	5206604.45	5206604.56	5206604.67	0.2661	0.0614

Venus	9545-08-12 17:02 G	5207523.07	5207523.21	5207523.36	0.2665	0.0998
Mercury	9556-02-08 20:09 G	5211355.23	5211355.34	5211355.45	0.2663	0.0884
Mercury	9565-08-04 06:14 G	5214819.62	5214819.76	5214819.90	0.2671	0.0910
Mercury	9569-02-10 14:52 G	5216106.07	5216106.12	5216106.17	0.2664	0.2346
Mercury	9576-02-04 11:31 G	5218655.90	5218655.98	5218656.06	0.2660	0.1818
Mercury	9578-08-07 09:21 G	5219570.77	5219570.89	5219571.01	0.2669	0.1555
Mercury	9589-02-06 06:28 G	5223406.65	5223406.77	5223406.88	0.2662	0.0298
Mercury	9602-02-09 01:11 G	5228157.45	5228157.55	5228157.65	0.2663	0.1197
Mercury	9611-08-05 12:14 G	5231621.87	5231622.01	5231622.15	0.2670	0.0426
Mercury	9615-02-11 19:55 G	5232908.32	5232908.33	5232908.33	0.2665	0.2660
Mercury	9622-02-04 16:33 G	5235458.09	5235458.19	5235458.28	0.2661	0.1495
Mercury	9624-08-07 15:21 G	5236373.05	5236373.14	5236373.23	0.2669	0.2061
Mercury	9635-02-07 11:31 G	5240208.86	5240208.98	5240209.09	0.2662	0.0079
Venus	9643-02-15 14:09 G	5243138.93	5243139.09	5243139.25	0.2667	0.0387
Mercury	9644-08-02 15:36 G	5243673.08	5243673.15	5243673.21	0.2672	0.2353
Mercury	9648-02-10 06:14 G	5244959.66	5244959.76	5244959.85	0.2663	0.1508
Mercury	9657-08-05 18:14 G	5248424.12	5248424.26	5248424.41	0.2670	0.0077
Mercury	9668-02-05 21:36 G	5252260.29	5252260.40	5252260.50	0.2661	0.1174
Mercury	9670-08-08 21:36 G	5253175.36	5253175.40	5253175.43	0.2669	0.2556
Mercury	9681-02-07 16:19 G	5257011.07	5257011.18	5257011.30	0.2662	0.0351
Mercury	9690-08-03 21:36 G	5260475.30	5260475.40	5260475.50	0.2672	0.1882
Mercury	9694-02-10 11:02 G	5261761.88	5261761.96	5261762.05	0.2664	0.1818
Mercury	9701-02-04 07:26 G	5264311.77	5264311.81	5264311.86	0.2659	0.2384
Mercury	9703-08-08 00:28 G	5265226.37	5265226.52	5265226.66	0.2670	0.0554
Mercury	9714-02-07 02:38 G	5269062.50	5269062.61	5269062.72	0.2661	0.0849
Mercury	9727-02-09 21:21 G	5273813.28	5273813.39	5273813.50	0.2662	0.0656
Mercury	9736-08-05 03:36 G	5277277.53	5277277.65	5277277.77	0.2671	0.1401
Mercury	9740-02-12 16:04 G	5278564.10	5278564.17	5278564.24	0.2664	0.2127
Mercury	9747-02-05 12:28 G	5281113.95	5281114.02	5281114.10	0.2659	0.2061
Mercury	9749-08-08 06:28 G	5282028.63	5282028.77	5282028.90	0.2670	0.1035

Mercury	9760-02-08 07:40 G	5285864.70	5285864.82	5285864.93	0.2661	0.0537
Mercury	9773-02-10 02:23 G	5290615.49	5290615.60	5290615.71	0.2662	0.0972
Venus	9780-08-16 02:38 G	5293359.58	5293359.61	5293359.64	0.2665	0.2605
Mercury	9782-08-06 09:36 G	5294079.76	5294079.90	5294080.03	0.2671	0.0923
Mercury	9786-02-12 21:07 G	5295366.33	5295366.38	5295366.42	0.2664	0.2442
Venus	9788-08-13 17:45 G	5296279.10	5296279.24	5296279.39	0.2667	0.1142
Mercury	9793-02-05 17:31 G	5297916.15	5297916.23	5297916.32	0.2660	0.1735
Mercury	9795-08-09 12:28 G	5298830.90	5298831.02	5298831.14	0.2670	0.1533
Mercury	9806-02-09 12:28 G	5302666.91	5302667.02	5302667.14	0.2661	0.0221
Mercury	9819-02-12 07:26 G	5307417.71	5307417.81	5307417.91	0.2663	0.1287
Mercury	9828-08-07 15:36 G	5310882.01	5310882.15	5310882.29	0.2671	0.0435
Mercury	9839-02-07 22:33 G	5314718.34	5314718.44	5314718.54	0.2660	0.1413
Mercury	9841-08-10 18:28 G	5315633.18	5315633.27	5315633.37	0.2670	0.2027
Mercury	9852-02-10 17:31 G	5319469.11	5319469.23	5319469.35	0.2661	0.0109
Mercury	9861-08-05 18:57 G	5322933.23	5322933.29	5322933.36	0.2672	0.2347
Mercury	9865-02-12 12:14 G	5324219.92	5324220.01	5324220.10	0.2663	0.1595
Mercury	9872-02-06 08:38 G	5326769.84	5326769.86	5326769.87	0.2659	0.2633
Mercury	9874-08-08 21:36 G	5327684.26	5327684.40	5327684.55	0.2671	0.0074
Mercury	9885-02-08 03:36 G	5331520.55	5331520.65	5331520.76	0.2660	0.1087
Venus	9886-02-17 15:36 G	5331894.99	5331895.15	5331895.30	0.2665	0.0321
Mercury	9887-08-12 00:43 G	5332435.49	5332435.53	5332435.57	0.2669	0.2533
Mercury	9898-02-10 22:33 G	5336271.32	5336271.44	5336271.55	0.2661	0.0427
Mercury	9907-08-08 00:57 G	5339735.44	5339735.54	5339735.64	0.2672	0.1872
Mercury	9911-02-14 17:16 G	5341022.14	5341022.22	5341022.30	0.2663	0.1906
Mercury	9918-02-07 13:40 G	5343572.01	5343572.07	5343572.12	0.2659	0.2304
Mercury	9920-08-10 03:36 G	5344486.51	5344486.65	5344486.80	0.2671	0.0539
Mercury	9931-02-10 08:38 G	5348322.75	5348322.86	5348322.97	0.2660	0.0767
Mercury	9944-02-13 03:36 G	5353073.53	5353073.65	5353073.76	0.2662	0.0747
Mercury	9953-08-08 06:57 G	5356537.67	5356537.79	5356537.91	0.2672	0.1400
Mercury	9957-02-14 22:19 G	5357824.37	5357824.43	5357824.49	0.2663	0.2220

Mercury	9964-02-08 18:43 G	5360374.20	5360374.28	5360374.35	0.2659	0.1977
Mercury	9966-08-11 09:50 G	5361288.77	5361288.91	5361289.04	0.2670	0.1028
Mercury	9977-02-10 13:40 G	5365124.95	5365125.07	5365125.18	0.2660	0.0448
Mercury	9990-02-13 08:23 G	5369875.75	5369875.85	5369875.96	0.2662	0.1056
Mercury	9999-08-09 12:57 G	5373339.91	5373340.04	5373340.18	0.2672	0.0923

11TH MILLENNIUM CE

This is a list of transits visible from Earth in the 11th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	10003-02-16 03:07 G		5374626.60	5374626.63	5374626.67	0.2663	0.2529	
Mercury	10010-02-08 23:45 G		5377176.39	5377176.49	5377176.58	0.2659	0.1654	
Mercury	10012-08-11 15:50 G		5378091.04	5378091.16	5378091.28	0.2670	0.1515	
Mercury	10023-02-11 18:43 G		5381927.16	5381927.28	5381927.39	0.2661	0.0162	
Venus	10023-08-19 03:36 G		5382115.59	5382115.65	5382115.70	0.2667	0.2464	
Venus	10031-08-16 18:28 G		5385035.13	5385035.27	5385035.41	0.2668	0.1296	
Mercury	10036-02-14 13:26 G		5386677.96	5386678.06	5386678.16	0.2662	0.1371	
Mercury	10045-08-09 18:57 G		5390142.15	5390142.29	5390142.43	0.2672	0.0448	
Mercury	10056-02-10 04:33 G		5393978.59	5393978.69	5393978.80	0.2659	0.1328	
Mercury	10058-08-12 21:50 G		5394893.32	5394893.41	5394893.51	0.2670	0.2010	
Mercury	10069-02-11 23:31 G		5398729.37	5398729.48	5398729.60	0.2661	0.0210	
Mercury	10078-08-07 22:33 G		5402193.37	5402193.44	5402193.51	0.2673	0.2342	
Mercury	10082-02-14 18:28 G		5403480.18	5403480.27	5403480.36	0.2662	0.1685	
Mercury	10089-02-07 14:38 G		5406030.08	5406030.11	5406030.14	0.2658	0.2548	

Mercury	10091-08-11 00:57 G	5406944.40	5406944.54	5406944.68	0.2672	0.0035
Mercury	10102-02-11 09:36 G	5410780.79	5410780.90	5410781.01	0.2659	0.1006
Mercury	10104-08-14 03:50 G	5411695.61	5411695.66	5411695.71	0.2670	0.2499
Mercury	10115-02-14 04:33 G	5415531.58	5415531.69	5415531.81	0.2661	0.0514
Mercury	10124-08-09 04:33 G	5418995.59	5418995.69	5418995.79	0.2673	0.1867
Mercury	10128-02-16 23:31 G	5420282.40	5420282.48	5420282.55	0.2662	0.2002
Venus	10129-02-19 17:16 G	5420651.06	5420651.22	5420651.38	0.2664	0.0303
Mercury	10135-02-09 19:40 G	5422832.25	5422832.32	5422832.38	0.2658	0.2225
Mercury	10137-08-12 06:57 G	5423746.65	5423746.79	5423746.94	0.2671	0.0529
Mercury	10148-02-12 14:38 G	5427583.00	5427583.11	5427583.22	0.2660	0.0681
Mercury	10161-02-14 09:36 G	5432333.79	5432333.90	5432334.01	0.2661	0.0829
Mercury	10170-08-10 10:33 G	5435797.82	5435797.94	5435798.06	0.2673	0.1397
Mercury	10174-02-17 04:19 G	5437084.63	5437084.68	5437084.74	0.2662	0.2312
Mercury	10181-02-10 00:43 G	5439634.44	5439634.53	5439634.61	0.2658	0.1899
Mercury	10183-08-13 13:11 G	5440548.91	5440549.05	5440549.18	0.2671	0.1018
Mercury	10194-02-12 19:40 G	5444385.20	5444385.32	5444385.43	0.2660	0.0365
Mercury	10207-02-16 14:38 G	5449136.00	5449136.11	5449136.21	0.2661	0.1147
Mercury	10216-08-11 16:19 G	5452600.05	5452600.18	5452600.32	0.2673	0.0929
Mercury	10220-02-19 09:21 G	5453886.87	5453886.89	5453886.91	0.2663	0.2621
Mercury	10227-02-12 05:31 G	5456436.64	5456436.73	5456436.83	0.2659	0.1574
Mercury	10229-08-14 19:11 G	5457351.18	5457351.30	5457351.42	0.2671	0.1503
Mercury	10240-02-15 00:43 G	5461187.41	5461187.53	5461187.64	0.2660	0.0057
Mercury	10253-02-16 19:40 G	5465938.22	5465938.32	5465938.41	0.2661	0.1461
Mercury	10262-08-12 22:33 G	5469402.29	5469402.44	5469402.58	0.2672	0.0455
Venus	10266-08-21 04:04 G	5470871.59	5470871.67	5470871.74	0.2668	0.2303
Mercury	10273-02-12 10:33 G	5473238.84	5473238.94	5473239.05	0.2659	0.1247
Venus	10274-08-18 18:57 G	5473791.16	5473791.29	5473791.42	0.2669	0.1484
Mercury	10275-08-16 01:11 G	5474153.45	5474153.55	5474153.64	0.2671	0.1989
Mercury	10286-02-15 05:45 G	5477989.62	5477989.74	5477989.85	0.2660	0.0286
Mercury	10295-08-11 01:55 G	5481453.52	5481453.58	5481453.65	0.2674	0.2337

Mercury	10299-02-18 00:28 G	5482740.44	5482740.52	5482740.61	0.2662	0.1779
Mercury	10306-02-11 20:38 G	5485290.32	5485290.36	5485290.40	0.2658	0.2474
Mercury	10308-08-14 04:33 G	5486204.54	5486204.69	5486204.83	0.2672	0.0077
Mercury	10319-02-14 15:36 G	5490041.04	5490041.15	5490041.26	0.2659	0.0923
Mercury	10321-08-17 07:11 G	5490955.75	5490955.80	5490955.85	0.2671	0.2486
Mercury	10332-02-17 10:48 G	5494791.83	5494791.95	5494792.06	0.2660	0.0609
Mercury	10341-08-12 07:55 G	5498255.73	5498255.83	5498255.93	0.2674	0.1873
Mercury	10345-02-19 05:31 G	5499542.66	5499542.73	5499542.80	0.2662	0.2089
Mercury	10352-02-13 01:26 G	5502092.50	5502092.56	5502092.63	0.2658	0.2144
Mercury	10354-08-15 10:33 G	5503006.79	5503006.94	5503007.08	0.2672	0.0519
Mercury	10365-02-14 20:38 G	5506843.25	5506843.36	5506843.48	0.2659	0.0602
Venus	10372-02-22 18:43 G	5509407.12	5509407.28	5509407.44	0.2663	0.0259
Mercury	10378-02-17 15:36 G	5511594.05	5511594.15	5511594.26	0.2660	0.0924
Mercury	10387-08-13 13:55 G	5515057.96	5515058.08	5515058.20	0.2673	0.1402
Mercury	10391-02-20 10:33 G	5516344.89	5516344.94	5516344.98	0.2662	0.2404
Mercury	10398-02-13 06:28 G	5518894.69	5518894.77	5518894.86	0.2658	0.1818
Mercury	10400-08-15 16:19 G	5519809.05	5519809.18	5519809.32	0.2672	0.0996
Mercury	10411-02-16 01:40 G	5523645.46	5523645.57	5523645.69	0.2659	0.0278
Mercury	10424-02-18 20:38 G	5528396.26	5528396.36	5528396.46	0.2660	0.1235
Mercury	10433-08-13 19:55 G	5531860.20	5531860.33	5531860.47	0.2673	0.0924
Mercury	10444-02-14 11:31 G	5535696.89	5535696.98	5535697.08	0.2658	0.1490
Mercury	10446-08-16 22:19 G	5536611.32	5536611.43	5536611.55	0.2672	0.1481
Mercury	10457-02-16 06:43 G	5540447.66	5540447.78	5540447.90	0.2659	0.0055
Mercury	10470-02-19 01:40 G	5545198.48	5545198.57	5545198.66	0.2661	0.1553
Mercury	10479-08-15 01:55 G	5548662.44	5548662.58	5548662.72	0.2673	0.0446
Mercury	10490-02-14 16:48 G	5552499.09	5552499.20	5552499.30	0.2658	0.1167
Mercury	10492-08-17 04:33 G	5553413.59	5553413.69	5553413.79	0.2672	0.1975
Mercury	10503-02-18 11:45 G	5557249.87	5557249.99	5557250.10	0.2659	0.0369
Venus	10509-08-23 04:33 G	5559627.59	5559627.69	5559627.78	0.2669	0.2134
Mercury	10512-08-13 05:45 G	5560713.67	5560713.74	5560713.80	0.2674	0.2325

Mercury	10516-02-21 06:43 G	5562000.70	5562000.78	5562000.86	0.2661	0.1868
Venus	10517-08-20 19:26 G	5562547.18	5562547.31	5562547.43	0.2670	0.1660
Mercury	10523-02-14 02:23 G	5564550.55	5564550.60	5564550.65	0.2657	0.2392
Mercury	10525-08-16 07:55 G	5565464.69	5565464.83	5565464.97	0.2673	0.0026
Mercury	10536-02-16 21:36 G	5569301.29	5569301.40	5569301.52	0.2658	0.0843
Mercury	10538-08-19 10:33 G	5570215.89	5570215.94	5570215.99	0.2671	0.2465
Mercury	10549-02-18 16:48 G	5574052.09	5574052.20	5574052.31	0.2660	0.0687
Mercury	10558-08-14 11:31 G	5577515.88	5577515.98	5577516.08	0.2674	0.1866
Mercury	10562-02-21 11:31 G	5578802.92	5578802.98	5578803.05	0.2661	0.2182
Mercury	10569-02-14 07:26 G	5581352.74	5581352.81	5581352.89	0.2657	0.2063
Mercury	10571-08-17 13:55 G	5582266.94	5582267.08	5582267.22	0.2673	0.0504
Mercury	10582-02-17 02:38 G	5586103.50	5586103.61	5586103.73	0.2659	0.0518
Mercury	10595-02-19 21:50 G	5590854.30	5590854.41	5590854.51	0.2660	0.1012
Mercury	10604-08-15 17:31 G	5594318.11	5594318.23	5594318.35	0.2674	0.1394
Mercury	10608-02-23 16:33 G	5595605.15	5595605.19	5595605.23	0.2661	0.2490
Mercury	10615-02-16 12:43 G	5598154.94	5598155.03	5598155.11	0.2657	0.1732
Venus	10615-02-24 20:38 G	5598163.20	5598163.36	5598163.52	0.2662	0.0237
Mercury	10617-08-18 19:55 G	5599069.19	5599069.33	5599069.46	0.2672	0.0982
Mercury	10628-02-19 07:40 G	5602905.71	5602905.82	5602905.94	0.2659	0.0198
Mercury	10641-02-21 02:38 G	5607656.51	5607656.61	5607656.71	0.2660	0.1329
Mercury	10650-08-16 23:31 G	5611120.34	5611120.48	5611120.61	0.2674	0.0929
Mercury	10661-02-16 17:45 G	5614957.14	5614957.24	5614957.33	0.2657	0.1408
Mercury	10663-08-20 01:55 G	5615871.46	5615871.58	5615871.70	0.2672	0.1468
Mercury	10674-02-19 12:43 G	5619707.92	5619708.03	5619708.15	0.2659	0.0143
Mercury	10687-02-22 07:40 G	5624458.73	5624458.82	5624458.91	0.2660	0.1644
Mercury	10694-02-15 03:21 G	5627008.63	5627008.64	5627008.65	0.2656	0.2641
Mercury	10696-08-17 05:16 G	5627922.58	5627922.72	5627922.86	0.2674	0.0468
Mercury	10707-02-18 22:33 G	5631759.34	5631759.44	5631759.55	0.2658	0.1081
Mercury	10709-08-21 07:55 G	5632673.73	5632673.83	5632673.92	0.2672	0.1949
Mercury	10720-02-21 17:45 G	5636510.13	5636510.24	5636510.36	0.2659	0.0454

Mercury	10729-08-16 09:21 G	5639973.82	5639973.89	5639973.96	0.2675	0.2320
Mercury	10733-02-23 12:43 G	5641260.95	5641261.03	5641261.11	0.2660	0.1958
Mercury	10740-02-17 08:23 G	5643810.80	5643810.85	5643810.91	0.2656	0.2311
Mercury	10742-08-19 11:16 G	5644724.83	5644724.97	5644725.12	0.2674	0.0044
Venus	10752-08-25 04:48 G	5648383.59	5648383.70	5648383.81	0.2670	0.1941
Mercury	10753-02-19 03:36 G	5648561.54	5648561.65	5648561.77	0.2658	0.0756
Mercury	10755-08-22 13:55 G	5649476.02	5649476.08	5649476.13	0.2672	0.2433
Venus	10760-08-22 19:26 G	5651303.20	5651303.31	5651303.42	0.2671	0.1874
Mercury	10766-02-21 22:48 G	5653312.34	5653312.45	5653312.56	0.2659	0.0778
Mercury	10775-08-17 15:07 G	5656776.03	5656776.13	5656776.24	0.2675	0.1852
Mercury	10779-02-24 17:45 G	5658063.18	5658063.24	5658063.30	0.2660	0.2269
Mercury	10786-02-17 13:26 G	5660612.99	5660613.06	5660613.14	0.2657	0.1982
Mercury	10788-08-19 17:16 G	5661527.08	5661527.22	5661527.36	0.2673	0.0498
Mercury	10799-02-20 08:38 G	5665363.75	5665363.86	5665363.98	0.2658	0.0431
Mercury	10812-02-23 03:50 G	5670114.55	5670114.66	5670114.76	0.2659	0.1096
Mercury	10821-08-17 21:07 G	5673578.26	5673578.38	5673578.50	0.2675	0.1394
Mercury	10825-02-24 22:48 G	5674865.42	5674865.45	5674865.47	0.2661	0.2588
Mercury	10832-02-18 18:28 G	5677415.18	5677415.27	5677415.36	0.2657	0.1653
Mercury	10834-08-20 23:16 G	5678329.34	5678329.47	5678329.61	0.2673	0.0978
Mercury	10845-02-20 13:40 G	5682165.96	5682166.07	5682166.19	0.2658	0.0118
Mercury	10858-02-23 08:52 G	5686916.77	5686916.87	5686916.96	0.2659	0.1416
Venus	10858-02-25 22:04 G	5686919.26	5686919.42	5686919.58	0.2661	0.0188
Mercury	10867-08-19 03:07 G	5690380.49	5690380.63	5690380.76	0.2674	0.0932
Mercury	10878-02-18 23:31 G	5694217.38	5694217.48	5694217.58	0.2657	0.1322
Mercury	10880-08-21 05:16 G	5695131.60	5695131.72	5695131.84	0.2673	0.1449
Mercury	10891-02-21 18:43 G	5698968.16	5698968.28	5698968.40	0.2658	0.0221
Mercury	10904-02-25 13:55 G	5703718.99	5703719.08	5703719.16	0.2660	0.1731
Mercury	10911-02-18 09:21 G	5706268.86	5706268.89	5706268.92	0.2656	0.2562
Mercury	10913-08-20 08:52 G	5707182.73	5707182.87	5707183.01	0.2674	0.0464
Mercury	10924-02-21 04:33 G	5711019.58	5711019.69	5711019.80	0.2657	0.0994

Mercury	10926-08-23 11:16 G	5711933.87	5711933.97	5711934.07	0.2673	0.1933
Mercury	10937-02-22 23:45 G	5715770.38	5715770.49	5715770.61	0.2658	0.0547
Mercury	10946-08-18 12:57 G	5719233.97	5719234.04	5719234.11	0.2676	0.2311
Mercury	10950-02-25 18:43 G	5720521.21	5720521.28	5720521.36	0.2660	0.2048
Mercury	10957-02-18 14:23 G	5723071.04	5723071.10	5723071.16	0.2656	0.2231
Mercury	10959-08-21 14:52 G	5723984.98	5723985.12	5723985.26	0.2674	0.0011
Mercury	10970-02-21 09:36 G	5727821.79	5727821.90	5727822.02	0.2657	0.0669
Mercury	10972-08-23 17:16 G	5728736.16	5728736.22	5728736.28	0.2673	0.2412
Mercury	10983-02-24 04:48 G	5732572.59	5732572.70	5732572.81	0.2659	0.0866
Mercury	10992-08-18 18:43 G	5736036.18	5736036.28	5736036.38	0.2675	0.1858
Venus	10995-08-27 04:48 G	5737139.58	5737139.70	5737139.82	0.2671	0.1732
Mercury	10996-02-26 23:45 G	5737323.44	5737323.49	5737323.54	0.2660	0.2365

12TH MILLENNIUM CE

This is a list of transits visible from Earth in the 12th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	11003-02-20 19:26 G		5739873.23	5739873.31	5739873.39	0.2656	0.1900	
Venus	11003-08-25 19:40 G		5740059.22	5740059.32	5740059.42	0.2673	0.2090	
Mercury	11005-08-22 20:52 G		5740787.23	5740787.37	5740787.51	0.2674	0.0484	
Mercury	11016-02-23 14:38 G		5744624.00	5744624.11	5744624.23	0.2657	0.0348	
Mercury	11029-02-25 09:50 G		5749374.81	5749374.91	5749375.01	0.2659	0.1185	
Mercury	11038-08-21 00:43 G		5752838.41	5752838.53	5752838.65	0.2675	0.1389	
Mercury	11049-02-21 00:28 G		5756675.43	5756675.52	5756675.61	0.2656	0.1568	

Mercury	11051-08-24 02:52 G	5757589.48	5757589.62	5757589.75	0.2674	0.0957
Mercury	11062-02-23 19:40 G	5761426.20	5761426.32	5761426.44	0.2657	0.0050
Mercury	11075-02-26 14:52 G	5766177.02	5766177.12	5766177.21	0.2659	0.1502
Mercury	11084-08-21 06:43 G	5769640.64	5769640.78	5769640.91	0.2675	0.0929
Mercury	11095-02-22 05:31 G	5773477.63	5773477.73	5773477.83	0.2656	0.1239
Mercury	11097-08-24 08:52 G	5774391.75	5774391.87	5774391.99	0.2674	0.1442
Venus	11101-03-01 00:00 G	5775675.34	5775675.50	5775675.66	0.2660	0.0182
Mercury	11108-02-26 00:43 G	5778228.42	5778228.53	5778228.65	0.2658	0.0317
Mercury	11121-02-27 19:55 G	5782979.24	5782979.33	5782979.41	0.2659	0.1825
Mercury	11128-02-21 15:07 G	5785529.09	5785529.13	5785529.17	0.2655	0.2485
Mercury	11130-08-23 12:28 G	5786442.88	5786443.02	5786443.16	0.2675	0.0462
Mercury	11141-02-23 10:33 G	5790279.83	5790279.94	5790280.05	0.2657	0.0912
Mercury	11143-08-26 14:38 G	5791194.02	5791194.11	5791194.21	0.2673	0.1917
Mercury	11154-02-26 05:45 G	5795030.63	5795030.74	5795030.86	0.2658	0.0632
Mercury	11163-08-21 16:33 G	5798494.12	5798494.19	5798494.26	0.2676	0.2301
Mercury	11167-03-01 00:57 G	5799781.47	5799781.54	5799781.60	0.2659	0.2142
Mercury	11174-02-21 20:09 G	5802331.28	5802331.34	5802331.41	0.2655	0.2154
Mercury	11176-08-23 18:28 G	5803245.13	5803245.27	5803245.41	0.2675	0.0011
Mercury	11187-02-24 15:36 G	5807082.04	5807082.15	5807082.27	0.2657	0.0583
Mercury	11189-08-26 20:38 G	5807996.30	5807996.36	5807996.42	0.2673	0.2403
Mercury	11200-02-27 10:48 G	5811832.84	5811832.95	5811833.06	0.2658	0.0952
Mercury	11209-08-21 22:33 G	5815296.34	5815296.44	5815296.54	0.2676	0.1844
Mercury	11213-03-01 05:45 G	5816583.70	5816583.74	5816583.78	0.2659	0.2456
Mercury	11220-02-23 01:26 G	5819133.47	5819133.56	5819133.64	0.2656	0.1817
Mercury	11222-08-25 00:28 G	5820047.38	5820047.52	5820047.66	0.2674	0.0481
Mercury	11233-02-24 20:38 G	5823884.24	5823884.36	5823884.48	0.2657	0.0258
Venus	11238-08-29 05:16 G	5825895.59	5825895.72	5825895.85	0.2672	0.1539
Mercury	11246-02-27 15:50 G	5828635.06	5828635.16	5828635.26	0.2658	0.1274
Venus	11246-08-26 19:40 G	5828815.25	5828815.32	5828815.40	0.2674	0.2310
Mercury	11255-08-23 04:19 G	5832098.56	5832098.68	5832098.80	0.2676	0.1390

Mercury	11266-02-23 06:28 G	5835935.67	5835935.77	5835935.87	0.2656	0.1485
Mercury	11268-08-25 06:14 G	5836849.63	5836849.76	5836849.89	0.2674	0.0949
Mercury	11279-02-26 01:40 G	5840686.46	5840686.57	5840686.69	0.2657	0.0101
Mercury	11292-02-28 20:52 G	5845437.28	5845437.37	5845437.46	0.2658	0.1597
Mercury	11301-08-24 10:19 G	5848900.80	5848900.93	5848901.06	0.2676	0.0925
Mercury	11312-02-25 11:31 G	5852737.87	5852737.98	5852738.08	0.2656	0.1154
Mercury	11314-08-27 12:14 G	5853651.89	5853652.01	5853652.13	0.2674	0.1419
Mercury	11325-02-27 06:43 G	5857488.67	5857488.78	5857488.90	0.2657	0.0399
Mercury	11338-03-02 01:55 G	5862239.50	5862239.58	5862239.66	0.2658	0.1917
Venus	11344-03-02 01:40 G	5864431.42	5864431.57	5864431.73	0.2659	0.0166
Mercury	11345-02-22 21:07 G	5864789.33	5864789.38	5864789.43	0.2655	0.2406
Mercury	11347-08-25 16:04 G	5865703.03	5865703.17	5865703.31	0.2676	0.0465
Mercury	11358-02-25 16:33 G	5869540.08	5869540.19	5869540.30	0.2656	0.0823
Mercury	11360-08-27 18:14 G	5870454.16	5870454.26	5870454.36	0.2674	0.1900
Mercury	11371-02-28 11:45 G	5874290.88	5874290.99	5874291.10	0.2657	0.0722
Mercury	11380-08-22 20:23 G	5877754.28	5877754.35	5877754.42	0.2677	0.2283
Mercury	11384-03-02 06:57 G	5879041.73	5879041.79	5879041.85	0.2659	0.2235
Mercury	11391-02-24 02:09 G	5881591.52	5881591.59	5881591.66	0.2655	0.2067
Mercury	11393-08-25 22:04 G	5882505.28	5882505.42	5882505.56	0.2675	0.0015
Mercury	11404-02-27 21:36 G	5886342.28	5886342.40	5886342.52	0.2656	0.0496
Mercury	11406-08-30 00:14 G	5887256.44	5887256.51	5887256.57	0.2674	0.2380
Mercury	11417-03-01 16:48 G	5891093.09	5891093.20	5891093.31	0.2657	0.1044
Mercury	11426-08-25 02:09 G	5894556.49	5894556.59	5894556.69	0.2676	0.1833
Mercury	11430-03-04 12:00 G	5895843.97	5895844.00	5895844.03	0.2659	0.2553
Mercury	11437-02-25 07:11 G	5898393.71	5898393.80	5898393.89	0.2655	0.1736
Mercury	11439-08-28 04:04 G	5899307.53	5899307.67	5899307.80	0.2675	0.0480
Mercury	11450-02-28 02:38 G	5903144.49	5903144.61	5903144.73	0.2656	0.0165
Mercury	11463-03-02 21:50 G	5907895.31	5907895.41	5907895.51	0.2658	0.1368
Mercury	11472-08-25 08:09 G	5911358.72	5911358.84	5911358.96	0.2676	0.1376
Venus	11481-08-31 05:02 G	5914651.57	5914651.71	5914651.85	0.2674	0.1296

Mercury	11483-02-26 12:14 G	5915195.91	5915196.01	5915196.11	0.2655	0.1401
Mercury	11485-08-28 09:50 G	5916109.78	5916109.91	5916110.05	0.2675	0.0946
Venus	11489-08-28 19:40 G	5917571.28	5917571.32	5917571.37	0.2675	0.2548
Mercury	11496-02-29 07:40 G	5919946.70	5919946.82	5919946.94	0.2657	0.0160
Mercury	11509-03-04 02:52 G	5924697.53	5924697.62	5924697.71	0.2658	0.1690
Mercury	11518-08-27 13:55 G	5928160.95	5928161.08	5928161.21	0.2676	0.0919
Mercury	11529-02-27 17:16 G	5931998.12	5931998.22	5931998.33	0.2655	0.1074
Mercury	11531-08-30 15:50 G	5932912.04	5932912.16	5932912.28	0.2675	0.1417
Mercury	11542-03-02 12:43 G	5936748.92	5936749.03	5936749.15	0.2657	0.0491
Mercury	11555-03-05 07:55 G	5941499.76	5941499.83	5941499.91	0.2658	0.2011
Mercury	11562-02-26 03:07 G	5944049.57	5944049.63	5944049.68	0.2654	0.2319
Mercury	11564-08-27 19:55 G	5944963.19	5944963.33	5944963.47	0.2676	0.0462
Mercury	11575-02-28 22:33 G	5948800.32	5948800.44	5948800.55	0.2655	0.0739
Mercury	11577-08-30 21:50 G	5949714.31	5949714.41	5949714.51	0.2675	0.1891
Venus	11587-03-05 03:50 G	5953187.50	5953187.66	5953187.82	0.2658	0.0174
Mercury	11588-03-02 17:45 G	5953551.13	5953551.24	5953551.35	0.2657	0.0815
Mercury	11597-08-26 00:14 G	5957014.43	5957014.51	5957014.58	0.2677	0.2277
Mercury	11601-03-05 12:57 G	5958301.99	5958302.04	5958302.09	0.2658	0.2331
Mercury	11608-02-27 08:09 G	5960851.76	5960851.84	5960851.91	0.2655	0.1985
Mercury	11610-08-29 01:40 G	5961765.43	5961765.57	5961765.71	0.2676	0.0008
Mercury	11621-03-01 03:36 G	5965602.53	5965602.65	5965602.76	0.2656	0.0406
Mercury	11623-09-01 03:36 G	5966516.59	5966516.65	5966516.72	0.2674	0.2367
Mercury	11634-03-03 22:48 G	5970353.35	5970353.45	5970353.56	0.2657	0.1144
Mercury	11643-08-27 06:00 G	5973816.65	5973816.75	5973816.85	0.2677	0.1818
Mercury	11647-03-06 18:00 G	5975104.24	5975104.25	5975104.25	0.2658	0.2647
Mercury	11654-02-27 13:11 G	5977653.96	5977654.05	5977654.14	0.2655	0.1647
Mercury	11656-08-29 07:40 G	5978567.68	5978567.82	5978567.96	0.2676	0.0473
Mercury	11667-03-02 08:38 G	5982404.74	5982404.86	5982404.98	0.2656	0.0083
Mercury	11680-03-04 03:50 G	5987155.56	5987155.66	5987155.76	0.2657	0.1463
Mercury	11689-08-27 12:00 G	5990618.88	5990619.00	5990619.12	0.2677	0.1363

Mercury	11700-02-28 18:14 G	5994456.16	5994456.26	5994456.36	0.2655	0.1317
Mercury	11702-08-31 13:40 G	5995369.93	5995370.07	5995370.20	0.2676	0.0946
Mercury	11713-03-03 13:40 G	5999206.95	5999207.07	5999207.19	0.2656	0.0255
Venus	11724-09-02 05:31 G	6003407.58	6003407.73	6003407.87	0.2674	0.1111
Mercury	11726-03-06 08:52 G	6003957.79	6003957.87	6003957.96	0.2657	0.1785
Mercury	11733-02-27 03:50 G	6006507.63	6006507.66	6006507.68	0.2654	0.2576
Mercury	11735-08-29 17:45 G	6007421.11	6007421.24	6007421.37	0.2677	0.0907
Mercury	11746-03-01 23:16 G	6011258.36	6011258.47	6011258.58	0.2655	0.0979
Mercury	11748-08-31 19:26 G	6012172.19	6012172.31	6012172.43	0.2675	0.1415
Mercury	11759-03-04 18:43 G	6016009.17	6016009.28	6016009.40	0.2656	0.0578
Mercury	11772-03-06 13:55 G	6020760.01	6020760.08	6020760.15	0.2657	0.2104
Mercury	11779-02-28 08:52 G	6023309.81	6023309.87	6023309.93	0.2654	0.2236
Mercury	11781-08-29 23:31 G	6024223.34	6024223.48	6024223.62	0.2676	0.0454
Mercury	11792-03-02 04:19 G	6028060.57	6028060.68	6028060.80	0.2655	0.0652
Mercury	11794-09-02 01:26 G	6028974.46	6028974.56	6028974.66	0.2675	0.1883
Mercury	11805-03-05 23:45 G	6032811.38	6032811.49	6032811.60	0.2656	0.0909
Mercury	11814-08-29 04:04 G	6036274.60	6036274.67	6036274.74	0.2678	0.2251
Mercury	11818-03-08 18:57 G	6037562.24	6037562.29	6037562.33	0.2658	0.2423
Mercury	11825-03-01 13:55 G	6040112.00	6040112.08	6040112.16	0.2654	0.1897
Mercury	11827-09-01 05:31 G	6041025.59	6041025.73	6041025.87	0.2676	0.0031
Venus	11830-03-07 06:00 G	6041943.59	6041943.75	6041943.91	0.2657	0.0164
Mercury	11838-03-04 09:36 G	6044862.78	6044862.90	6044863.01	0.2655	0.0326
Mercury	11840-09-03 07:11 G	6045776.74	6045776.80	6045776.87	0.2675	0.2354
Mercury	11851-03-07 04:48 G	6049613.60	6049613.70	6049613.80	0.2657	0.1232
Mercury	11860-08-29 09:50 G	6053076.81	6053076.91	6053077.01	0.2678	0.1805
Mercury	11871-03-02 18:57 G	6056914.20	6056914.29	6056914.39	0.2654	0.1564
Mercury	11873-09-01 11:16 G	6057827.83	6057827.97	6057828.11	0.2676	0.0475
Mercury	11884-03-04 14:38 G	6061664.99	6061665.11	6061665.23	0.2655	0.0057
Mercury	11897-03-07 09:50 G	6066415.82	6066415.91	6066416.01	0.2657	0.1559
Mercury	11906-08-31 15:36 G	6069879.03	6069879.15	6069879.27	0.2677	0.1357

Mercury	11917-03-04 00:14 G	6073716.40	6073716.51	6073716.61	0.2654	0.1225
Mercury	11919-09-03 17:16 G	6074630.08	6074630.22	6074630.35	0.2676	0.0937
Mercury	11930-03-06 19:40 G	6078467.20	6078467.32	6078467.44	0.2655	0.0348
Mercury	11943-03-09 14:52 G	6083218.04	6083218.12	6083218.20	0.2657	0.1878
Mercury	11950-03-02 09:36 G	6085767.86	6085767.90	6085767.94	0.2653	0.2490
Mercury	11952-08-31 21:36 G	6086681.26	6086681.40	6086681.53	0.2677	0.0907
Mercury	11963-03-05 05:16 G	6090518.61	6090518.72	6090518.83	0.2654	0.0891
Mercury	11965-09-03 23:02 G	6091432.34	6091432.46	6091432.58	0.2676	0.1399
Venus	11967-09-05 05:16 G	6092163.57	6092163.72	6092163.87	0.2675	0.0847
Mercury	11976-03-07 00:43 G	6095269.41	6095269.53	6095269.64	0.2656	0.0676
Mercury	11985-08-30 02:09 G	6098732.58	6098732.59	6098732.60	0.2678	0.2671
Mercury	11989-03-09 19:55 G	6100020.27	6100020.33	6100020.39	0.2657	0.2203
Mercury	11996-03-02 14:38 G	6102570.05	6102570.11	6102570.18	0.2654	0.2155
Mercury	11998-09-02 03:21 G	6103483.50	6103483.64	6103483.78	0.2677	0.0439

13TH MILLENNIUM CE

This is a list of transits visible from Earth in the 13th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	12009-03-05 10:19 G		6107320.81	6107320.93	6107321.05	0.2655	0.0557	
Mercury	12011-09-05 05:02 G		6108234.61	6108234.71	6108234.81	0.2676	0.1873	
Mercury	12022-03-08 05:45 G		6112071.63	6112071.74	6112071.85	0.2656	0.1001	
Mercury	12031-08-31 07:55 G		6115534.76	6115534.83	6115534.90	0.2678	0.2233	
Mercury	12035-03-11 00:57 G		6116822.51	6116822.54	6116822.57	0.2657	0.2524	

Mercury	12042-03-03 19:55 G	6119372.24	6119372.33	6119372.41	0.2654	0.1817
Mercury	12044-09-02 09:07 G	6120285.74	6120285.88	6120286.02	0.2677	0.0072
Mercury	12055-03-06 15:21 G	6124123.02	6124123.14	6124123.26	0.2655	0.0231
Mercury	12057-09-05 11:02 G	6125036.89	6125036.96	6125037.02	0.2676	0.2351
Mercury	12068-03-08 10:48 G	6128873.85	6128873.95	6128874.05	0.2656	0.1327
Venus	12073-03-08 08:09 G	6130699.68	6130699.84	6130699.99	0.2656	0.0185
Mercury	12077-08-31 13:40 G	6132336.97	6132337.07	6132337.17	0.2678	0.1787
Mercury	12088-03-04 00:57 G	6136174.44	6136174.54	6136174.64	0.2654	0.1474
Mercury	12090-09-03 15:07 G	6137087.99	6137088.13	6137088.27	0.2677	0.0476
Mercury	12101-03-07 20:23 G	6140925.23	6140925.35	6140925.47	0.2655	0.0115
Mercury	12114-03-10 15:50 G	6145676.07	6145676.16	6145676.25	0.2656	0.1648
Mercury	12123-09-02 19:26 G	6149139.19	6149139.31	6149139.43	0.2678	0.1343
Mercury	12134-03-06 06:00 G	6152976.64	6152976.75	6152976.86	0.2654	0.1138
Mercury	12136-09-04 20:52 G	6153890.24	6153890.37	6153890.50	0.2677	0.0934
Mercury	12147-03-09 01:26 G	6157727.45	6157727.56	6157727.68	0.2655	0.0447
Mercury	12160-03-10 20:52 G	6162478.29	6162478.37	6162478.45	0.2656	0.1979
Mercury	12167-03-04 15:21 G	6165028.10	6165028.14	6165028.19	0.2653	0.2411
Mercury	12169-09-03 01:26 G	6165941.42	6165941.56	6165941.69	0.2678	0.0890
Mercury	12180-03-06 11:02 G	6169778.85	6169778.96	6169779.08	0.2654	0.0806
Mercury	12182-09-06 02:52 G	6170692.50	6170692.62	6170692.74	0.2676	0.1401
Mercury	12193-03-09 06:43 G	6174529.66	6174529.78	6174529.89	0.2655	0.0775
Mercury	12202-09-02 06:00 G	6177992.74	6177992.75	6177992.76	0.2679	0.2661
Mercury	12206-03-13 01:55 G	6179280.53	6179280.58	6179280.64	0.2657	0.2301
Venus	12210-09-07 05:31 G	6180919.57	6180919.73	6180919.88	0.2676	0.0641
Mercury	12213-03-05 20:38 G	6181830.28	6181830.36	6181830.43	0.2653	0.2071
Mercury	12215-09-05 07:11 G	6182743.66	6182743.80	6182743.93	0.2678	0.0446
Mercury	12226-03-08 16:04 G	6186581.06	6186581.17	6186581.29	0.2654	0.0480
Mercury	12228-09-07 08:38 G	6187494.76	6187494.86	6187494.96	0.2676	0.1868
Mercury	12239-03-11 11:45 G	6191331.88	6191331.99	6191332.09	0.2655	0.1096
Mercury	12248-09-02 11:45 G	6194794.92	6194794.99	6194795.07	0.2679	0.2215

Mercury	12252-03-13 06:57 G	6196082.78	6196082.79	6196082.81	0.2657	0.2625
Mercury	12259-03-07 01:40 G	6198632.48	6198632.57	6198632.66	0.2653	0.1726
Mercury	12261-09-05 12:57 G	6199545.90	6199546.04	6199546.18	0.2677	0.0018
Mercury	12272-03-08 21:21 G	6203383.27	6203383.39	6203383.51	0.2654	0.0155
Mercury	12274-09-08 14:38 G	6204297.04	6204297.11	6204297.17	0.2676	0.2332
Mercury	12285-03-11 16:48 G	6208134.10	6208134.20	6208134.30	0.2655	0.1421
Mercury	12294-09-03 17:31 G	6211597.13	6211597.23	6211597.34	0.2679	0.1772
Mercury	12305-03-08 06:43 G	6215434.68	6215434.78	6215434.88	0.2653	0.1391
Mercury	12307-09-07 18:43 G	6216348.15	6216348.28	6216348.42	0.2677	0.0484
Venus	12316-03-11 10:19 G	6219455.77	6219455.93	6219456.09	0.2655	0.0195
Mercury	12318-03-11 02:23 G	6220185.48	6220185.60	6220185.72	0.2654	0.0199
Mercury	12331-03-13 21:50 G	6224936.32	6224936.41	6224936.50	0.2656	0.1751
Mercury	12340-09-04 23:31 G	6228399.36	6228399.48	6228399.60	0.2678	0.1322
Mercury	12351-03-09 11:45 G	6232236.88	6232236.99	6232237.10	0.2654	0.1057
Mercury	12353-09-08 00:43 G	6233150.40	6233150.53	6233150.66	0.2677	0.0941
Mercury	12364-03-11 07:26 G	6236987.69	6236987.81	6236987.93	0.2655	0.0529
Mercury	12377-03-14 02:52 G	6241738.55	6241738.62	6241738.69	0.2656	0.2073
Mercury	12384-03-06 21:07 G	6244288.33	6244288.38	6244288.44	0.2653	0.2329
Mercury	12386-09-06 05:16 G	6245201.59	6245201.72	6245201.85	0.2678	0.0881
Mercury	12397-03-09 17:02 G	6249039.09	6249039.21	6249039.32	0.2654	0.0722
Mercury	12399-09-09 06:28 G	6249952.65	6249952.77	6249952.89	0.2677	0.1402
Mercury	12410-03-12 12:28 G	6253789.91	6253790.02	6253790.14	0.2655	0.0860
Mercury	12419-09-04 10:04 G	6257252.90	6257252.92	6257252.94	0.2679	0.2637
Mercury	12423-03-15 07:55 G	6258540.78	6258540.83	6258540.88	0.2656	0.2396
Mercury	12430-03-08 02:23 G	6261090.52	6261090.60	6261090.68	0.2653	0.1981
Mercury	12432-09-06 11:02 G	6262003.82	6262003.96	6262004.10	0.2678	0.0428
Mercury	12443-03-10 22:04 G	6265841.30	6265841.42	6265841.54	0.2654	0.0377
Mercury	12445-09-09 12:28 G	6266754.92	6266755.02	6266755.12	0.2677	0.1858
Venus	12453-09-08 05:02 G	6269675.55	6269675.71	6269675.87	0.2677	0.0356
Mercury	12456-03-12 17:31 G	6270592.13	6270592.23	6270592.34	0.2655	0.1191

Mercury	12465-09-04 15:50 G	6274055.08	6274055.16	6274055.23	0.2679	0.2198
Mercury	12476-03-08 07:26 G	6277892.72	6277892.81	6277892.90	0.2653	0.1644
Mercury	12478-09-07 16:48 G	6278806.06	6278806.20	6278806.34	0.2678	0.0020
Mercury	12489-03-11 03:07 G	6282643.51	6282643.63	6282643.75	0.2654	0.0084
Mercury	12491-09-10 18:14 G	6283557.19	6283557.26	6283557.33	0.2677	0.2323
Mercury	12502-03-14 22:48 G	6287394.35	6287394.45	6287394.54	0.2655	0.1522
Mercury	12511-09-06 21:36 G	6290857.29	6290857.40	6290857.50	0.2679	0.1757
Mercury	12522-03-10 12:28 G	6294694.92	6294695.02	6294695.13	0.2653	0.1307
Mercury	12524-09-08 22:33 G	6295608.31	6295608.44	6295608.58	0.2678	0.0481
Mercury	12535-03-13 08:23 G	6299445.73	6299445.85	6299445.96	0.2654	0.0308
Mercury	12548-03-15 03:50 G	6304196.57	6304196.66	6304196.74	0.2655	0.1846
Mercury	12555-03-08 21:50 G	6306746.39	6306746.41	6306746.43	0.2652	0.2589
Mercury	12557-09-07 03:21 G	6307659.52	6307659.64	6307659.76	0.2679	0.1315
Venus	12559-03-13 12:28 G	6308211.86	6308212.02	6308212.17	0.2654	0.0198
Mercury	12568-03-10 17:45 G	6311497.13	6311497.24	6311497.35	0.2653	0.0967
Mercury	12570-09-10 04:19 G	6312410.55	6312410.68	6312410.81	0.2678	0.0932
Mercury	12581-03-13 13:26 G	6316247.94	6316248.06	6316248.17	0.2654	0.0625
Mercury	12594-03-16 08:52 G	6320998.80	6320998.87	6320998.93	0.2655	0.2168
Mercury	12601-03-10 03:07 G	6323548.56	6323548.63	6323548.69	0.2652	0.2246
Mercury	12603-09-09 09:07 G	6324461.75	6324461.88	6324462.01	0.2679	0.0863
Mercury	12614-03-12 22:48 G	6328299.34	6328299.45	6328299.57	0.2653	0.0625
Mercury	12616-09-11 10:19 G	6329212.81	6329212.93	6329213.05	0.2677	0.1390
Mercury	12627-03-15 18:28 G	6333050.16	6333050.27	6333050.38	0.2654	0.0953
Mercury	12636-09-06 13:55 G	6336513.06	6336513.08	6336513.11	0.2680	0.2608
Mercury	12640-03-17 13:55 G	6337801.04	6337801.08	6337801.11	0.2655	0.2491
Mercury	12647-03-11 08:09 G	6340350.76	6340350.84	6340350.92	0.2652	0.1903
Mercury	12649-09-09 14:52 G	6341263.98	6341264.12	6341264.26	0.2678	0.0421
Mercury	12660-03-13 03:50 G	6345101.54	6345101.66	6345101.78	0.2653	0.0303
Mercury	12662-09-12 16:04 G	6346015.07	6346015.17	6346015.27	0.2677	0.1854
Mercury	12673-03-15 23:31 G	6349852.38	6349852.48	6349852.58	0.2654	0.1281

Mercury	12682-09-07 19:40 G	6353315.25	6353315.32	6353315.40	0.2680	0.2176
Mercury	12693-03-11 13:11 G	6357152.96	6357153.05	6357153.15	0.2653	0.1559
Mercury	12695-09-10 20:38 G	6358066.22	6358066.36	6358066.50	0.2678	0.0037
Venus	12696-09-10 04:48 G	6358431.54	6358431.70	6358431.86	0.2678	0.0102
Mercury	12706-03-15 09:07 G	6361903.76	6361903.88	6361904.00	0.2654	0.0099
Mercury	12708-09-13 22:04 G	6362817.35	6362817.42	6362817.48	0.2677	0.2317
Mercury	12719-03-18 04:33 G	6366654.60	6366654.69	6366654.78	0.2655	0.1607
Mercury	12728-09-09 01:26 G	6370117.46	6370117.56	6370117.67	0.2679	0.1739
Mercury	12739-03-13 18:28 G	6373955.16	6373955.27	6373955.37	0.2653	0.1219
Mercury	12741-09-12 02:23 G	6374868.46	6374868.60	6374868.74	0.2678	0.0478
Mercury	12752-03-15 14:09 G	6378705.97	6378706.09	6378706.21	0.2654	0.0382
Mercury	12765-03-18 09:36 G	6383456.82	6383456.90	6383456.98	0.2655	0.1936
Mercury	12772-03-11 03:36 G	6386006.62	6386006.65	6386006.69	0.2652	0.2505
Mercury	12774-09-10 07:11 G	6386919.68	6386919.80	6386919.92	0.2679	0.1300
Mercury	12785-03-13 23:31 G	6390757.37	6390757.48	6390757.60	0.2653	0.0873
Mercury	12787-09-13 08:09 G	6391670.71	6391670.84	6391670.97	0.2678	0.0936
Mercury	12798-03-16 19:11 G	6395508.18	6395508.30	6395508.41	0.2654	0.0712
Venus	12802-03-15 14:38 G	6396967.95	6396968.11	6396968.27	0.2653	0.0216
Mercury	12811-03-19 14:38 G	6400259.05	6400259.11	6400259.17	0.2655	0.2263
Mercury	12818-03-12 08:52 G	6402808.80	6402808.87	6402808.93	0.2652	0.2161
Mercury	12820-09-10 12:57 G	6403721.91	6403722.04	6403722.17	0.2679	0.0862
Mercury	12831-03-15 04:33 G	6407559.58	6407559.69	6407559.81	0.2653	0.0543
Mercury	12833-09-13 13:55 G	6408472.97	6408473.08	6408473.20	0.2678	0.1388
Mercury	12844-03-17 00:14 G	6412310.40	6412310.51	6412310.62	0.2654	0.1048
Mercury	12853-09-08 18:00 G	6415773.22	6415773.25	6415773.28	0.2680	0.2589
Mercury	12857-03-19 19:55 G	6417061.30	6417061.33	6417061.35	0.2655	0.2593
Mercury	12864-03-12 13:55 G	6419610.99	6419611.08	6419611.17	0.2652	0.1816
Mercury	12866-09-11 18:43 G	6420524.14	6420524.28	6420524.42	0.2679	0.0414
Mercury	12877-03-15 09:50 G	6424361.79	6424361.91	6424362.03	0.2653	0.0226
Mercury	12879-09-14 19:55 G	6425275.23	6425275.33	6425275.43	0.2678	0.1844

Mercury	12890-03-18 05:16 G	6429112.62	6429112.72	6429112.82	0.2654	0.1375
Mercury	12899-09-09 23:45 G	6432575.41	6432575.49	6432575.57	0.2680	0.2152
Mercury	12910-03-14 18:57 G	6436413.19	6436413.29	6436413.39	0.2652	0.1478
Mercury	12912-09-13 00:28 G	6437326.38	6437326.52	6437326.66	0.2679	0.0061
Mercury	12923-03-17 14:52 G	6441164.00	6441164.12	6441164.24	0.2653	0.0143
Mercury	12925-09-16 01:40 G	6442077.50	6442077.57	6442077.64	0.2678	0.2305
Mercury	12936-03-19 10:33 G	6445914.85	6445914.94	6445915.03	0.2654	0.1707
Venus	12939-09-13 04:19 G	6447187.52	6447187.68	6447187.84	0.2679	0.0190
Mercury	12945-09-11 05:31 G	6449377.62	6449377.73	6449377.83	0.2680	0.1720
Mercury	12956-03-15 00:14 G	6453215.40	6453215.51	6453215.62	0.2652	0.1133
Mercury	12958-09-14 06:28 G	6454128.63	6454128.77	6454128.90	0.2679	0.0497
Mercury	12969-03-17 19:55 G	6457966.21	6457966.33	6457966.45	0.2653	0.0469
Mercury	12982-03-20 15:36 G	6462717.07	6462717.15	6462717.22	0.2654	0.2032
Mercury	12989-03-13 09:21 G	6465266.84	6465266.89	6465266.94	0.2651	0.2423
Mercury	12991-09-12 11:16 G	6466179.85	6466179.97	6466180.09	0.2680	0.1283

14TH MILLENNIUM CE

This is a list of transits visible from Earth in the 14th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	13002-03-17 05:16 G	6470017.60	6470017.72	6470017.83	0.2652	0.0793		
Mercury	13004-09-15 12:00 G	6470930.88	6470931.00	6470931.13	0.2678	0.0939		
Mercury	13015-03-20 00:57 G	6474768.43	6474768.54	6474768.66	0.2653	0.0810		
Mercury	13028-03-21 20:38 G	6479519.31	6479519.36	6479519.41	0.2655	0.2362		

Mercury	13035-03-15 14:23 G	6482069.03	6482069.10	6482069.18	0.2651	0.2082
Mercury	13037-09-13 17:02 G	6482982.08	6482982.21	6482982.34	0.2679	0.0842
Venus	13045-03-17 16:48 G	6485724.05	6485724.20	6485724.36	0.2652	0.0229
Mercury	13048-03-17 10:19 G	6486819.82	6486819.93	6486820.05	0.2653	0.0457
Mercury	13050-09-16 18:00 G	6487733.13	6487733.25	6487733.37	0.2678	0.1392
Mercury	13061-03-20 06:14 G	6491570.65	6491570.76	6491570.86	0.2654	0.1140
Mercury	13070-09-11 22:04 G	6495033.38	6495033.42	6495033.46	0.2680	0.2565
Mercury	13081-03-15 19:40 G	6498871.23	6498871.32	6498871.41	0.2651	0.1733
Mercury	13083-09-14 22:48 G	6499784.31	6499784.45	6499784.58	0.2679	0.0402
Mercury	13094-03-18 15:36 G	6503622.03	6503622.15	6503622.27	0.2653	0.0122
Mercury	13096-09-16 23:45 G	6504535.39	6504535.49	6504535.59	0.2678	0.1843
Mercury	13107-03-22 11:16 G	6508372.87	6508372.97	6508373.07	0.2654	0.1473
Mercury	13116-09-13 03:50 G	6511835.58	6511835.66	6511835.74	0.2680	0.2138
Mercury	13127-03-18 00:43 G	6515673.43	6515673.53	6515673.64	0.2652	0.1389
Mercury	13129-09-16 04:33 G	6516586.55	6516586.69	6516586.82	0.2679	0.0075
Mercury	13140-03-19 20:38 G	6520424.24	6520424.36	6520424.48	0.2653	0.0234
Mercury	13142-09-19 05:31 G	6521337.66	6521337.73	6521337.80	0.2678	0.2299
Mercury	13153-03-22 16:19 G	6525175.10	6525175.18	6525175.27	0.2654	0.1802
Mercury	13162-09-14 09:36 G	6528637.79	6528637.90	6528638.00	0.2680	0.1700
Mercury	13173-03-18 06:00 G	6532475.64	6532475.75	6532475.86	0.2652	0.1046
Mercury	13175-09-17 10:19 G	6533388.79	6533388.93	6533389.06	0.2679	0.0491
Venus	13182-09-15 04:04 G	6535943.51	6535943.67	6535943.83	0.2680	0.0463
Mercury	13186-03-21 01:55 G	6537226.46	6537226.58	6537226.69	0.2653	0.0572
Mercury	13199-03-23 21:21 G	6541977.33	6541977.39	6541977.46	0.2654	0.2137
Mercury	13206-03-16 15:07 G	6544527.07	6544527.13	6544527.18	0.2651	0.2349
Mercury	13208-09-14 15:21 G	6545440.02	6545440.14	6545440.26	0.2680	0.1260
Mercury	13219-03-19 11:02 G	6549277.85	6549277.96	6549278.08	0.2652	0.0703
Mercury	13221-09-17 16:04 G	6550191.04	6550191.17	6550191.30	0.2679	0.0941
Mercury	13232-03-21 06:57 G	6554028.68	6554028.79	6554028.90	0.2653	0.0902
Mercury	13245-03-24 02:24 G	6558779.56	6558779.60	6558779.65	0.2654	0.2462

Mercury	13252-03-16 20:09 G	6561329.26	6561329.34	6561329.42	0.2651	0.1995
Mercury	13254-09-15 21:07 G	6562242.25	6562242.38	6562242.51	0.2680	0.0824
Mercury	13265-03-19 16:19 G	6566080.06	6566080.18	6566080.30	0.2652	0.0374
Mercury	13267-09-18 21:50 G	6566993.29	6566993.41	6566993.53	0.2679	0.1394
Mercury	13278-03-22 12:00 G	6570830.90	6570831.00	6570831.11	0.2653	0.1234
Mercury	13287-09-14 02:09 G	6574293.55	6574293.59	6574293.63	0.2681	0.2537
Venus	13288-03-18 19:12 G	6574480.14	6574480.30	6574480.46	0.2652	0.0240
Mercury	13298-03-18 01:26 G	6578131.46	6578131.56	6578131.65	0.2651	0.1647
Mercury	13300-09-17 02:38 G	6579044.48	6579044.61	6579044.75	0.2680	0.0394
Mercury	13311-03-21 21:21 G	6582882.27	6582882.39	6582882.51	0.2652	0.0024
Mercury	13313-09-20 03:36 G	6583795.55	6583795.65	6583795.75	0.2678	0.1845
Mercury	13324-03-23 17:02 G	6587633.12	6587633.21	6587633.31	0.2653	0.1567
Mercury	13333-09-15 07:55 G	6591095.75	6591095.83	6591095.91	0.2681	0.2106
Mercury	13344-03-19 06:28 G	6594933.67	6594933.77	6594933.88	0.2651	0.1299
Mercury	13346-09-18 08:24 G	6595846.71	6595846.85	6595846.99	0.2679	0.0070
Mercury	13357-03-22 02:24 G	6599684.48	6599684.60	6599684.72	0.2652	0.0334
Mercury	13359-09-21 09:21 G	6600597.82	6600597.89	6600597.96	0.2678	0.2294
Mercury	13370-03-24 22:19 G	6604435.34	6604435.43	6604435.51	0.2654	0.1903
Mercury	13377-03-17 15:36 G	6606985.13	6606985.15	6606985.17	0.2651	0.2610
Mercury	13379-09-16 13:40 G	6607897.96	6607898.07	6607898.17	0.2681	0.1674
Mercury	13390-03-20 11:45 G	6611735.88	6611735.99	6611736.10	0.2652	0.0954
Mercury	13392-09-18 14:09 G	6612648.96	6612649.09	6612649.23	0.2679	0.0504
Mercury	13403-03-24 07:40 G	6616486.70	6616486.82	6616486.93	0.2653	0.0663
Mercury	13416-03-26 03:21 G	6621237.57	6621237.64	6621237.70	0.2654	0.2230
Mercury	13423-03-19 20:52 G	6623787.30	6623787.37	6623787.43	0.2651	0.2258
Venus	13425-09-17 03:36 G	6624699.50	6624699.65	6624699.80	0.2681	0.0751
Mercury	13425-09-17 19:26 G	6624700.19	6624700.31	6624700.43	0.2680	0.1249
Mercury	13436-03-21 16:48 G	6628538.09	6628538.20	6628538.32	0.2652	0.0614
Mercury	13438-09-20 19:55 G	6629451.20	6629451.33	6629451.46	0.2679	0.0945
Mercury	13449-03-24 12:43 G	6633288.92	6633289.03	6633289.14	0.2653	0.0995

Mercury	13462-03-27 08:24 G	6638039.82	6638039.85	6638039.88	0.2654	0.2562
Mercury	13469-03-20 01:55 G	6640589.50	6640589.58	6640589.67	0.2651	0.1906
Mercury	13471-09-19 00:57 G	6641502.41	6641502.54	6641502.67	0.2680	0.0813
Mercury	13482-03-22 22:04 G	6645340.30	6645340.42	6645340.54	0.2652	0.0267
Mercury	13484-09-21 01:40 G	6646253.45	6646253.57	6646253.69	0.2679	0.1390
Mercury	13495-03-25 17:45 G	6650091.14	6650091.24	6650091.35	0.2653	0.1333
Mercury	13504-09-17 06:28 G	6653553.72	6653553.77	6653553.82	0.2681	0.2499
Mercury	13515-03-22 07:12 G	6657391.70	6657391.80	6657391.90	0.2651	0.1558
Mercury	13517-09-20 06:43 G	6658304.65	6658304.78	6658304.92	0.2680	0.0374
Mercury	13528-03-24 03:07 G	6662142.51	6662142.63	6662142.75	0.2652	0.0081
Mercury	13530-09-23 07:26 G	6663055.71	6663055.81	6663055.91	0.2679	0.1840
Venus	13531-03-22 21:50 G	6663236.25	6663236.41	6663236.57	0.2651	0.0295
Mercury	13541-03-26 23:02 G	6666893.36	6666893.46	6666893.55	0.2653	0.1667
Mercury	13550-09-18 12:00 G	6670355.92	6670356.00	6670356.09	0.2681	0.2077
Mercury	13561-03-22 12:14 G	6674193.90	6674194.01	6674194.12	0.2651	0.1214
Mercury	13563-09-21 12:28 G	6675106.89	6675107.02	6675107.16	0.2680	0.0093
Mercury	13574-03-25 08:09 G	6678944.73	6678944.84	6678944.96	0.2652	0.0427
Mercury	13576-09-23 13:26 G	6679857.99	6679858.06	6679858.12	0.2679	0.2302
Mercury	13587-03-28 04:04 G	6683695.59	6683695.67	6683695.75	0.2653	0.1998
Mercury	13594-03-20 21:21 G	6686245.35	6686245.39	6686245.42	0.2650	0.2522
Mercury	13596-09-18 17:45 G	6687158.14	6687158.24	6687158.35	0.2681	0.1652
Mercury	13607-03-23 17:31 G	6690996.11	6690996.23	6690996.34	0.2651	0.0867
Mercury	13609-09-21 18:14 G	6691909.13	6691909.26	6691909.40	0.2680	0.0514
Mercury	13620-03-25 13:26 G	6695746.94	6695747.06	6695747.17	0.2652	0.0750
Mercury	13633-03-28 09:07 G	6700497.83	6700497.88	6700497.94	0.2653	0.2330
Mercury	13640-03-21 02:24 G	6703047.54	6703047.60	6703047.67	0.2650	0.2170
Mercury	13642-09-19 23:31 G	6703960.36	6703960.48	6703960.60	0.2681	0.1222
Mercury	13653-03-23 22:33 G	6707798.32	6707798.44	6707798.56	0.2651	0.0520
Mercury	13655-09-23 00:00 G	6708711.37	6708711.50	6708711.63	0.2680	0.0954
Mercury	13666-03-26 18:28 G	6712549.16	6712549.27	6712549.38	0.2652	0.1094

Venus	13668-09-18 03:21 G	6713455.49	6713455.64	6713455.78	0.2681	0.1027
Mercury	13686-03-22 07:40 G	6719849.73	6719849.82	6719849.91	0.2650	0.1818
Mercury	13688-09-20 05:16 G	6720762.59	6720762.72	6720762.85	0.2680	0.0792
Mercury	13699-03-25 03:50 G	6724600.54	6724600.66	6724600.78	0.2651	0.0187
Mercury	13701-09-24 05:45 G	6725513.62	6725513.74	6725513.86	0.2679	0.1399
Mercury	13712-03-27 23:45 G	6729351.39	6729351.49	6729351.59	0.2653	0.1430
Mercury	13721-09-19 10:33 G	6732813.89	6732813.94	6732813.99	0.2682	0.2478
Mercury	13732-03-23 12:43 G	6736651.93	6736652.03	6736652.14	0.2651	0.1473
Mercury	13734-09-22 10:48 G	6737564.82	6737564.95	6737565.09	0.2680	0.0358
Mercury	13745-03-26 08:52 G	6741402.75	6741402.87	6741402.99	0.2652	0.0172
Mercury	13747-09-25 11:31 G	6742315.88	6742315.98	6742316.08	0.2679	0.1850
Mercury	13758-03-29 04:48 G	6746153.61	6746153.70	6746153.79	0.2653	0.1767
Mercury	13767-09-20 16:19 G	6749616.09	6749616.18	6749616.26	0.2681	0.2053
Venus	13774-03-24 00:14 G	6751992.35	6751992.51	6751992.66	0.2651	0.0310
Mercury	13778-03-24 18:00 G	6753454.14	6753454.25	6753454.36	0.2651	0.1122
Mercury	13780-09-22 16:33 G	6754367.05	6754367.19	6754367.33	0.2680	0.0083
Mercury	13791-03-27 14:09 G	6758204.97	6758205.09	6758205.20	0.2652	0.0517
Mercury	13793-09-25 17:16 G	6759118.15	6759118.22	6759118.29	0.2679	0.2296
Mercury	13804-03-30 09:50 G	6762955.84	6762955.91	6762955.99	0.2653	0.2100
Mercury	13811-03-24 02:52 G	6765505.58	6765505.62	6765505.67	0.2650	0.2441
Mercury	13813-09-21 22:04 G	6766418.31	6766418.42	6766418.52	0.2681	0.1625
Mercury	13824-03-25 23:16 G	6770256.35	6770256.47	6770256.58	0.2651	0.0779
Mercury	13826-09-24 22:19 G	6771169.30	6771169.43	6771169.56	0.2680	0.0523
Mercury	13837-03-28 19:12 G	6775007.19	6775007.30	6775007.42	0.2652	0.0852
Mercury	13850-03-31 15:07 G	6779758.08	6779758.13	6779758.17	0.2653	0.2432
Mercury	13857-03-24 08:09 G	6782307.76	6782307.84	6782307.91	0.2650	0.2090
Mercury	13859-09-23 03:36 G	6783220.53	6783220.65	6783220.78	0.2681	0.1194
Mercury	13870-03-27 04:19 G	6787058.56	6787058.68	6787058.80	0.2651	0.0430
Mercury	13872-09-25 04:04 G	6787971.54	6787971.67	6787971.80	0.2680	0.0965
Mercury	13883-03-30 00:28 G	6791809.41	6791809.52	6791809.62	0.2652	0.1192

Mercury	13903-03-26 13:12 G	6799109.96	6799110.05	6799110.14	0.2650	0.1738
Venus	13903-09-24 12:43 G	6799292.01	6799292.03	6799292.06	0.2681	0.2643
Mercury	13905-09-24 09:21 G	6800022.76	6800022.89	6800023.02	0.2681	0.0762
Venus	13911-09-22 02:52 G	6802211.48	6802211.62	6802211.76	0.2682	0.1330
Mercury	13916-03-28 09:36 G	6803860.77	6803860.90	6803861.02	0.2651	0.0111
Mercury	13918-09-27 09:50 G	6804773.79	6804773.91	6804774.02	0.2680	0.1413
Mercury	13929-03-31 05:31 G	6808611.63	6808611.73	6808611.83	0.2652	0.1526
Mercury	13938-09-22 14:52 G	6812074.07	6812074.12	6812074.17	0.2682	0.2441
Mercury	13949-03-26 18:28 G	6815912.17	6815912.27	6815912.37	0.2650	0.1383
Mercury	13951-09-25 15:07 G	6816824.99	6816825.13	6816825.26	0.2681	0.0342
Mercury	13962-03-29 14:38 G	6820662.99	6820663.11	6820663.23	0.2651	0.0262
Mercury	13964-09-27 15:21 G	6821576.05	6821576.14	6821576.24	0.2680	0.1856
Mercury	13975-04-01 10:33 G	6825413.86	6825413.94	6825414.03	0.2652	0.1861
Mercury	13984-09-22 20:38 G	6828876.27	6828876.36	6828876.44	0.2682	0.2025
Mercury	13995-03-27 23:45 G	6832714.38	6832714.49	6832714.60	0.2651	0.1030
Mercury	13997-09-25 20:38 G	6833627.23	6833627.36	6833627.50	0.2681	0.0113

15TH MILLENNIUM CE

This is a list of transits visible from Earth in the 15th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	14008-03-29 19:55 G	6837465.21	6837465.33	6837465.45	0.2651	0.0610		
Mercury	14010-09-28 21:07 G	6838378.32	6838378.38	6838378.45	0.2679	0.2299		
Venus	14017-03-26 02:52 G	6840748.46	6840748.62	6840748.78	0.2650	0.0375		

Mercury	14021-04-01 15:50 G	6842216.09	6842216.16	6842216.22	0.2652	0.2201
Mercury	14028-03-25 08:38 G	6844765.80	6844765.86	6844765.91	0.2650	0.2358
Mercury	14030-09-24 02:09 G	6845678.48	6845678.59	6845678.70	0.2681	0.1597
Mercury	14041-03-28 04:48 G	6849516.59	6849516.70	6849516.82	0.2651	0.0689
Mercury	14043-09-27 02:24 G	6850429.47	6850429.60	6850429.73	0.2680	0.0532
Mercury	14054-03-31 00:57 G	6854267.43	6854267.54	6854267.65	0.2652	0.0948
Mercury	14067-04-02 20:52 G	6859018.34	6859018.37	6859018.40	0.2653	0.2534
Mercury	14074-03-26 13:40 G	6861567.99	6861568.07	6861568.15	0.2650	0.2005
Mercury	14076-09-24 07:55 G	6862480.71	6862480.83	6862480.95	0.2681	0.1177
Mercury	14087-03-29 10:04 G	6866318.80	6866318.92	6866319.04	0.2651	0.0335
Mercury	14089-09-27 08:09 G	6867231.71	6867231.84	6867231.96	0.2680	0.0975
Mercury	14100-04-01 06:00 G	6871069.65	6871069.75	6871069.86	0.2652	0.1290
Mercury	14120-03-27 18:57 G	6878370.20	6878370.29	6878370.39	0.2650	0.1647
Mercury	14122-09-26 13:26 G	6879282.93	6879283.06	6879283.19	0.2681	0.0747
Mercury	14133-03-30 15:07 G	6883121.01	6883121.13	6883121.26	0.2651	0.0094
Mercury	14135-09-29 13:40 G	6884033.96	6884034.07	6884034.19	0.2680	0.1412
Mercury	14146-04-02 11:16 G	6887871.87	6887871.97	6887872.06	0.2652	0.1624
Venus	14146-09-25 12:00 G	6888047.93	6888048.00	6888048.08	0.2682	0.2336
Venus	14154-09-23 02:09 G	6890967.47	6890967.59	6890967.72	0.2683	0.1626
Mercury	14155-09-24 19:12 G	6891334.24	6891334.30	6891334.36	0.2682	0.2410
Mercury	14166-03-29 00:14 G	6895172.40	6895172.51	6895172.61	0.2650	0.1297
Mercury	14168-09-26 19:12 G	6896085.16	6896085.30	6896085.43	0.2681	0.0313
Mercury	14179-03-31 20:24 G	6899923.23	6899923.35	6899923.47	0.2651	0.0356
Mercury	14181-09-29 19:26 G	6900836.22	6900836.31	6900836.41	0.2680	0.1860
Mercury	14192-04-02 16:19 G	6904674.10	6904674.18	6904674.26	0.2652	0.1963
Mercury	14199-03-27 08:52 G	6907223.86	6907223.87	6907223.88	0.2649	0.2631
Mercury	14201-09-26 00:43 G	6908136.45	6908136.53	6908136.62	0.2682	0.1990
Mercury	14212-03-30 05:16 G	6911974.61	6911974.72	6911974.84	0.2650	0.0948
Mercury	14214-09-29 00:57 G	6912887.40	6912887.54	6912887.67	0.2681	0.0145
Mercury	14225-04-02 01:26 G	6916725.45	6916725.56	6916725.68	0.2651	0.0702

Mercury	14227-10-02 01:12 G	6917638.49	6917638.55	6917638.62	0.2680	0.2302
Mercury	14238-04-04 21:36 G	6921476.34	6921476.40	6921476.46	0.2652	0.2298
Mercury	14245-03-28 14:09 G	6924026.03	6924026.09	6924026.15	0.2650	0.2275
Mercury	14247-09-27 06:28 G	6924938.66	6924938.77	6924938.88	0.2682	0.1572
Mercury	14258-03-31 10:33 G	6928776.82	6928776.94	6928777.06	0.2650	0.0593
Venus	14260-03-28 05:16 G	6929504.56	6929504.72	6929504.87	0.2649	0.0388
Mercury	14260-09-29 06:28 G	6929689.64	6929689.77	6929689.91	0.2681	0.0554
Mercury	14271-04-03 06:43 G	6933527.67	6933527.78	6933527.89	0.2651	0.1041
Mercury	14284-04-05 02:38 G	6938278.60	6938278.61	6938278.62	0.2652	0.2631
Mercury	14291-03-29 19:26 G	6940828.23	6940828.31	6940828.39	0.2650	0.1912
Mercury	14293-09-27 12:00 G	6941740.88	6941741.00	6941741.12	0.2682	0.1150
Mercury	14304-04-01 15:50 G	6945579.03	6945579.16	6945579.28	0.2650	0.0260
Mercury	14306-10-01 12:14 G	6946491.88	6946492.01	6946492.14	0.2681	0.0983
Mercury	14317-04-04 11:45 G	6950329.89	6950329.99	6950330.10	0.2651	0.1384
Mercury	14337-03-31 00:43 G	6957630.43	6957630.53	6957630.62	0.2650	0.1566
Mercury	14339-09-29 17:45 G	6958543.11	6958543.24	6958543.37	0.2681	0.0731
Mercury	14350-04-02 20:52 G	6962381.25	6962381.37	6962381.49	0.2651	0.0117
Mercury	14352-10-01 18:00 G	6963294.13	6963294.25	6963294.36	0.2680	0.1423
Mercury	14363-04-05 17:02 G	6967132.12	6967132.21	6967132.30	0.2651	0.1723
Mercury	14372-09-26 23:31 G	6970594.42	6970594.48	6970594.54	0.2682	0.2379
Mercury	14383-04-01 05:45 G	6974432.63	6974432.74	6974432.85	0.2650	0.1208
Mercury	14385-09-29 23:16 G	6975345.34	6975345.47	6975345.61	0.2681	0.0305
Venus	14389-09-27 11:31 G	6976803.88	6976803.98	6976804.09	0.2682	0.2037
Mercury	14396-04-03 02:09 G	6979183.47	6979183.59	6979183.71	0.2651	0.0453
Venus	14397-09-25 01:40 G	6979723.46	6979723.57	6979723.68	0.2683	0.1943
Mercury	14398-10-02 23:31 G	6980096.38	6980096.48	6980096.58	0.2680	0.1854
Mercury	14409-04-05 22:04 G	6983934.35	6983934.42	6983934.50	0.2652	0.2063
Mercury	14416-03-29 14:24 G	6986484.07	6986484.10	6986484.13	0.2649	0.2555
Mercury	14418-09-28 05:02 G	6987396.62	6987396.71	6987396.80	0.2682	0.1961
Mercury	14429-04-01 11:02 G	6991234.84	6991234.96	6991235.07	0.2650	0.0859

Mercury	14431-10-01 05:02 G	6992147.57	6992147.71	6992147.85	0.2681	0.0131
Mercury	14442-04-04 07:12 G	6995985.69	6995985.80	6995985.92	0.2651	0.0797
Mercury	14444-10-03 05:16 G	6996898.65	6996898.72	6996898.79	0.2680	0.2300
Mercury	14455-04-07 03:21 G	7000736.59	7000736.64	7000736.69	0.2652	0.2395
Mercury	14462-03-30 19:40 G	7003286.26	7003286.32	7003286.39	0.2649	0.2190
Mercury	14464-09-28 10:48 G	7004198.84	7004198.95	7004199.06	0.2682	0.1541
Mercury	14475-04-02 16:04 G	7008037.05	7008037.17	7008037.29	0.2650	0.0514
Mercury	14477-10-01 10:48 G	7008949.81	7008949.95	7008950.08	0.2681	0.0568
Mercury	14488-04-04 12:28 G	7012787.91	7012788.02	7012788.13	0.2651	0.1133
Venus	14503-03-31 07:40 G	7018260.67	7018260.82	7018260.98	0.2649	0.0431
Mercury	14508-04-01 00:57 G	7020088.45	7020088.54	7020088.63	0.2649	0.1835
Mercury	14510-09-30 16:19 G	7021001.06	7021001.18	7021001.30	0.2682	0.1125
Mercury	14521-04-03 21:21 G	7024839.27	7024839.39	7024839.51	0.2650	0.0158
Mercury	14523-10-03 16:19 G	7025752.06	7025752.18	7025752.31	0.2681	0.0999
Mercury	14534-04-06 17:31 G	7029590.13	7029590.23	7029590.33	0.2651	0.1479
Mercury	14554-04-02 06:14 G	7036890.66	7036890.76	7036890.86	0.2650	0.1475
Mercury	14556-09-30 22:04 G	7037803.29	7037803.42	7037803.55	0.2682	0.0703
Mercury	14567-04-05 02:38 G	7041641.48	7041641.61	7041641.73	0.2650	0.0201
Mercury	14569-10-03 22:04 G	7042554.30	7042554.42	7042554.53	0.2681	0.1427
Mercury	14580-04-06 22:48 G	7046392.36	7046392.45	7046392.54	0.2651	0.1817
Mercury	14589-09-29 03:50 G	7049854.60	7049854.66	7049854.72	0.2683	0.2346
Mercury	14600-04-03 11:16 G	7053692.86	7053692.97	7053693.09	0.2650	0.1129
Mercury	14602-10-03 03:36 G	7054605.52	7054605.65	7054605.78	0.2682	0.0278
Mercury	14613-04-06 07:40 G	7058443.70	7058443.82	7058443.94	0.2651	0.0550
Mercury	14615-10-06 03:36 G	7059356.56	7059356.65	7059356.75	0.2681	0.1868
Mercury	14626-04-09 03:50 G	7063194.59	7063194.66	7063194.73	0.2651	0.2157
Venus	14632-09-29 11:02 G	7065559.84	7065559.96	7065560.08	0.2683	0.1728
Mercury	14633-04-01 20:09 G	7065744.29	7065744.34	7065744.38	0.2649	0.2469
Mercury	14635-10-01 09:21 G	7066656.80	7066656.89	7066656.98	0.2682	0.1937
Venus	14640-09-27 00:57 G	7068479.45	7068479.54	7068479.62	0.2684	0.2267

Mercury	14646-04-04 16:33 G	7070495.07	7070495.19	7070495.31	0.2650	0.0769
Mercury	14648-10-03 09:07 G	7071407.75	7071407.88	7071408.02	0.2681	0.0175
Mercury	14659-04-07 12:57 G	7075245.92	7075246.04	7075246.15	0.2651	0.0883
Mercury	14661-10-06 09:21 G	7076158.82	7076158.89	7076158.96	0.2680	0.2301
Mercury	14672-04-09 09:07 G	7079996.84	7079996.88	7079996.92	0.2652	0.2496
Mercury	14679-04-03 01:12 G	7082546.48	7082546.55	7082546.63	0.2649	0.2109
Mercury	14681-10-01 15:07 G	7083459.02	7083459.13	7083459.23	0.2682	0.1525
Mercury	14692-04-04 21:50 G	7087297.29	7087297.41	7087297.53	0.2650	0.0417
Mercury	14694-10-04 14:52 G	7088209.99	7088210.12	7088210.25	0.2681	0.0571
Mercury	14705-04-08 18:14 G	7092048.15	7092048.26	7092048.36	0.2651	0.1236
Mercury	14725-04-04 06:28 G	7099348.68	7099348.77	7099348.86	0.2649	0.1751
Mercury	14727-10-03 20:38 G	7100261.24	7100261.36	7100261.48	0.2682	0.1097
Mercury	14738-04-07 03:07 G	7104099.50	7104099.63	7104099.75	0.2650	0.0102
Mercury	14740-10-05 20:24 G	7105012.23	7105012.35	7105012.48	0.2681	0.1003
Venus	14746-04-02 10:19 G	7107016.77	7107016.93	7107017.08	0.2648	0.0459
Mercury	14751-04-09 23:16 G	7108850.37	7108850.47	7108850.57	0.2651	0.1572
Mercury	14771-04-05 11:45 G	7116150.88	7116150.99	7116151.09	0.2649	0.1398
Mercury	14773-10-04 02:09 G	7117063.46	7117063.59	7117063.72	0.2682	0.0681
Mercury	14784-04-07 08:09 G	7120901.72	7120901.84	7120901.97	0.2650	0.0290
Mercury	14786-10-07 02:09 G	7121814.48	7121814.59	7121814.71	0.2681	0.1440
Mercury	14797-04-10 04:33 G	7125652.60	7125652.69	7125652.77	0.2651	0.1918
Mercury	14806-10-02 08:09 G	7129114.78	7129114.84	7129114.91	0.2683	0.2314
Mercury	14817-04-05 17:02 G	7132953.09	7132953.21	7132953.32	0.2649	0.1036
Mercury	14819-10-05 07:55 G	7133865.69	7133865.83	7133865.96	0.2682	0.0259
Mercury	14830-04-08 13:26 G	7137703.94	7137704.06	7137704.18	0.2650	0.0630
Mercury	14832-10-07 07:55 G	7138616.73	7138616.83	7138616.92	0.2681	0.1875
Mercury	14843-04-11 09:36 G	7142454.84	7142454.90	7142454.96	0.2651	0.2251
Mercury	14850-04-04 01:26 G	7145004.51	7145004.56	7145004.62	0.2649	0.2390
Mercury	14852-10-02 13:40 G	7145916.98	7145917.07	7145917.17	0.2683	0.1906
Mercury	14863-04-06 22:19 G	7149755.31	7149755.43	7149755.55	0.2650	0.0686

Mercury	14865-10-05 13:26 G	7150667.93	7150668.06	7150668.20	0.2682	0.0164
Venus	14875-10-01 10:19 G	7154315.79	7154315.93	7154316.06	0.2683	0.1400
Mercury	14876-04-08 18:43 G	7154506.16	7154506.28	7154506.39	0.2650	0.0986
Mercury	14878-10-08 13:26 G	7155419.00	7155419.06	7155419.13	0.2681	0.2310
Venus	14883-09-29 00:14 G	7157235.47	7157235.51	7157235.55	0.2684	0.2588
Mercury	14889-04-11 14:52 G	7159257.09	7159257.12	7159257.14	0.2651	0.2596
Mercury	14896-04-04 06:57 G	7161806.71	7161806.79	7161806.86	0.2649	0.2028
Mercury	14898-10-03 19:26 G	7162719.20	7162719.31	7162719.42	0.2682	0.1487
Mercury	14909-04-08 03:21 G	7166557.52	7166557.64	7166557.77	0.2650	0.0333
Mercury	14911-10-07 19:12 G	7167470.17	7167470.30	7167470.43	0.2681	0.0595
Mercury	14922-04-10 23:45 G	7171308.39	7171308.49	7171308.60	0.2651	0.1325
Mercury	14942-04-06 12:00 G	7178608.91	7178609.00	7178609.10	0.2649	0.1668
Mercury	14944-10-05 00:57 G	7179521.42	7179521.54	7179521.66	0.2682	0.1073
Mercury	14955-04-09 08:38 G	7183359.74	7183359.86	7183359.98	0.2650	0.0026
Mercury	14957-10-08 00:43 G	7184272.41	7184272.53	7184272.66	0.2681	0.1021
Mercury	14968-04-11 05:02 G	7188110.61	7188110.71	7188110.80	0.2651	0.1674
Mercury	14988-04-06 17:16 G	7195411.12	7195411.22	7195411.33	0.2649	0.1305
Venus	14989-04-03 12:57 G	7195772.88	7195773.04	7195773.19	0.2648	0.0497
Mercury	14990-10-06 06:28 G	7196323.64	7196323.77	7196323.90	0.2682	0.0663

16TH MILLENNIUM CE

This is a list of transits visible from Earth in the 16th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Mercury	15001-04-10 13:55 G	7200161.95	7200162.08	7200162.20	0.2650	0.0384
Mercury	15003-10-10 06:28 G	7201074.65	7201074.77	7201074.88	0.2681	0.1449
Mercury	15014-04-13 10:04 G	7204912.85	7204912.92	7204913.00	0.2651	0.2013
Mercury	15023-10-05 12:43 G	7208374.96	7208375.03	7208375.10	0.2683	0.2278
Mercury	15034-04-08 22:33 G	7212213.32	7212213.44	7212213.56	0.2649	0.0948
Mercury	15036-10-07 12:14 G	7213125.87	7213126.01	7213126.14	0.2682	0.0246
Mercury	15047-04-11 18:57 G	7216964.18	7216964.29	7216964.41	0.2650	0.0734
Mercury	15049-10-10 12:00 G	7217876.91	7217877.00	7217877.10	0.2681	0.1875
Mercury	15060-04-13 15:21 G	7221715.09	7221715.14	7221715.19	0.2651	0.2359
Mercury	15067-04-07 06:57 G	7224264.74	7224264.79	7224264.85	0.2649	0.2312
Mercury	15069-10-05 18:14 G	7225177.17	7225177.26	7225177.35	0.2683	0.1863
Mercury	15080-04-09 03:50 G	7229015.54	7229015.66	7229015.78	0.2649	0.0595
Mercury	15082-10-08 17:45 G	7229928.11	7229928.24	7229928.38	0.2682	0.0200
Mercury	15093-04-12 00:14 G	7233766.40	7233766.51	7233766.62	0.2650	0.1076
Mercury	15095-10-11 17:45 G	7234679.17	7234679.24	7234679.30	0.2681	0.2311
Mercury	15113-04-08 12:14 G	7241066.93	7241067.01	7241067.10	0.2649	0.1946
Mercury	15115-10-07 23:45 G	7241979.38	7241979.49	7241979.60	0.2683	0.1454
Venus	15118-10-04 09:50 G	7243071.76	7243071.91	7243072.05	0.2684	0.1105
Mercury	15126-04-11 08:52 G	7245817.75	7245817.87	7245818.00	0.2650	0.0258
Mercury	15128-10-09 23:31 G	7246730.35	7246730.48	7246730.61	0.2682	0.0617
Mercury	15139-04-14 05:31 G	7250568.63	7250568.73	7250568.83	0.2650	0.1423
Mercury	15159-04-09 17:31 G	7257869.14	7257869.23	7257869.33	0.2649	0.1580
Mercury	15161-10-08 05:16 G	7258781.60	7258781.72	7258781.85	0.2682	0.1048
Mercury	15172-04-11 14:09 G	7262619.97	7262620.09	7262620.22	0.2650	0.0136
Mercury	15174-10-11 05:02 G	7263532.59	7263532.71	7263532.83	0.2682	0.1037
Mercury	15185-04-14 10:33 G	7267370.85	7267370.94	7267371.03	0.2650	0.1769
Mercury	15194-10-06 11:31 G	7270832.97	7270832.98	7270833.00	0.2683	0.2647
Mercury	15205-04-09 22:48 G	7274671.34	7274671.45	7274671.56	0.2649	0.1218
Mercury	15207-10-09 11:02 G	7275583.83	7275583.96	7275584.09	0.2682	0.0631
Mercury	15218-04-12 19:26 G	7279422.19	7279422.31	7279422.43	0.2650	0.0478

Mercury	15220-10-11 10:33 G	7280334.83	7280334.94	7280335.06	0.2681	0.1464
Mercury	15231-04-15 15:50 G	7284173.09	7284173.16	7284173.23	0.2651	0.2118
Venus	15232-04-05 15:36 G	7284528.99	7284529.15	7284529.30	0.2648	0.0544
Mercury	15238-04-08 07:12 G	7286722.78	7286722.80	7286722.83	0.2648	0.2590
Mercury	15240-10-06 17:02 G	7287635.14	7287635.21	7287635.29	0.2683	0.2240
Mercury	15251-04-11 04:04 G	7291473.55	7291473.67	7291473.79	0.2649	0.0859
Mercury	15253-10-09 16:33 G	7292386.06	7292386.19	7292386.32	0.2682	0.0210
Mercury	15264-04-13 00:43 G	7296224.41	7296224.53	7296224.65	0.2650	0.0826
Mercury	15266-10-12 16:19 G	7297137.08	7297137.18	7297137.27	0.2681	0.1889
Mercury	15277-04-15 21:07 G	7300975.33	7300975.38	7300975.42	0.2651	0.2458
Mercury	15284-04-08 12:28 G	7303524.96	7303525.02	7303525.09	0.2648	0.2225
Mercury	15286-10-07 22:48 G	7304437.35	7304437.45	7304437.54	0.2683	0.1837
Mercury	15297-04-11 09:21 G	7308275.77	7308275.89	7308276.01	0.2649	0.0502
Mercury	15299-10-10 22:04 G	7309188.29	7309188.42	7309188.56	0.2682	0.0211
Mercury	15310-04-15 06:00 G	7313026.64	7313026.75	7313026.86	0.2650	0.1174
Mercury	15312-10-13 21:50 G	7313939.35	7313939.41	7313939.48	0.2681	0.2323
Mercury	15330-04-10 17:45 G	7320327.16	7320327.24	7320327.33	0.2649	0.1857
Mercury	15332-10-09 04:19 G	7321239.57	7321239.68	7321239.79	0.2683	0.1422
Mercury	15343-04-13 14:38 G	7325077.99	7325078.11	7325078.23	0.2649	0.0143
Mercury	15345-10-12 03:50 G	7325990.53	7325990.66	7325990.79	0.2682	0.0632
Mercury	15356-04-15 11:02 G	7329828.86	7329828.96	7329829.06	0.2650	0.1522
Venus	15361-10-05 08:52 G	7331827.72	7331827.87	7331828.02	0.2684	0.0776
Mercury	15376-04-10 23:02 G	7337129.36	7337129.46	7337129.56	0.2649	0.1496
Mercury	15378-10-10 09:50 G	7338041.79	7338041.91	7338042.03	0.2683	0.1010
Mercury	15389-04-13 19:55 G	7341880.20	7341880.33	7341880.45	0.2649	0.0218
Mercury	15391-10-13 09:21 G	7342792.77	7342792.89	7342793.01	0.2682	0.1055
Mercury	15402-04-17 16:19 G	7346631.09	7346631.18	7346631.27	0.2650	0.1870
Mercury	15411-10-09 16:04 G	7350093.15	7350093.17	7350093.20	0.2683	0.2600
Mercury	15422-04-13 04:19 G	7353931.57	7353931.68	7353931.80	0.2649	0.1132
Mercury	15424-10-11 15:21 G	7354844.01	7354844.14	7354844.27	0.2682	0.0595

Mercury	15435-04-16 00:57 G	7358682.42	7358682.54	7358682.67	0.2650	0.0572
Mercury	15437-10-14 14:52 G	7359595.01	7359595.12	7359595.24	0.2682	0.1482
Mercury	15448-04-17 21:36 G	7363433.33	7363433.40	7363433.46	0.2650	0.2214
Mercury	15455-04-11 12:43 G	7365982.99	7365983.03	7365983.07	0.2648	0.2506
Mercury	15457-10-09 21:36 G	7366895.33	7366895.40	7366895.48	0.2683	0.2201
Mercury	15468-04-13 09:36 G	7370733.78	7370733.90	7370734.02	0.2649	0.0771
Mercury	15470-10-12 20:52 G	7371646.24	7371646.37	7371646.51	0.2682	0.0191
Venus	15475-04-08 18:14 G	7373285.10	7373285.26	7373285.41	0.2647	0.0591
Mercury	15481-04-16 06:14 G	7375484.65	7375484.76	7375484.88	0.2650	0.0918
Mercury	15483-10-15 20:38 G	7376397.27	7376397.36	7376397.45	0.2682	0.1909
Mercury	15494-04-19 02:38 G	7380235.58	7380235.61	7380235.64	0.2651	0.2557
Mercury	15501-04-12 18:00 G	7382785.18	7382785.25	7382785.33	0.2648	0.2135
Mercury	15503-10-12 03:07 G	7383697.54	7383697.63	7383697.73	0.2683	0.1796
Mercury	15514-04-15 14:52 G	7387536.00	7387536.12	7387536.25	0.2649	0.0410
Mercury	15516-10-14 02:38 G	7388448.47	7388448.61	7388448.74	0.2682	0.0246
Mercury	15527-04-18 11:31 G	7392286.87	7392286.98	7392287.09	0.2650	0.1270
Mercury	15529-10-17 02:09 G	7393199.53	7393199.59	7393199.66	0.2681	0.2334
Mercury	15547-04-13 23:16 G	7399587.38	7399587.47	7399587.56	0.2648	0.1773
Mercury	15549-10-12 08:38 G	7400499.75	7400499.86	7400499.98	0.2683	0.1394
Mercury	15560-04-15 20:09 G	7404338.22	7404338.34	7404338.47	0.2649	0.0053
Mercury	15562-10-15 08:09 G	7405250.71	7405250.84	7405250.97	0.2682	0.0653
Mercury	15573-04-18 16:48 G	7409089.10	7409089.20	7409089.29	0.2650	0.1623
Mercury	15593-04-14 04:33 G	7416389.59	7416389.69	7416389.80	0.2649	0.1406
Mercury	15595-10-13 14:09 G	7417301.97	7417302.09	7417302.22	0.2683	0.0984
Venus	15604-10-07 08:38 G	7420583.70	7420583.86	7420584.01	0.2685	0.0486
Mercury	15606-04-17 01:26 G	7421140.43	7421140.56	7421140.68	0.2649	0.0307
Mercury	15608-10-15 13:40 G	7422052.95	7422053.07	7422053.19	0.2682	0.1069
Mercury	15619-04-19 21:50 G	7425891.33	7425891.41	7425891.49	0.2650	0.1970
Mercury	15628-10-10 20:38 G	7429353.33	7429353.36	7429353.40	0.2684	0.2559
Mercury	15639-04-15 09:50 G	7433191.80	7433191.91	7433192.03	0.2649	0.1046

Mercury	15641-10-13 19:55 G	7434104.20	7434104.33	7434104.46	0.2683	0.0576
Mercury	15652-04-17 06:43 G	7437942.66	7437942.78	7437942.90	0.2649	0.0665
Mercury	15654-10-16 19:12 G	7438855.19	7438855.30	7438855.41	0.2682	0.1497
Mercury	15665-04-20 03:07 G	7442693.57	7442693.63	7442693.69	0.2650	0.2316
Mercury	15672-04-12 18:14 G	7445243.21	7445243.26	7445243.31	0.2648	0.2426
Mercury	15674-10-12 02:09 G	7446155.52	7446155.59	7446155.67	0.2683	0.2157
Mercury	15685-04-15 15:07 G	7449994.01	7449994.13	7449994.25	0.2649	0.0681
Mercury	15687-10-15 01:26 G	7450906.43	7450906.56	7450906.69	0.2683	0.0153
Mercury	15698-04-18 11:45 G	7454744.88	7454744.99	7454745.11	0.2649	0.1017
Mercury	15700-10-18 00:57 G	7455657.45	7455657.54	7455657.63	0.2682	0.1919
Venus	15718-04-10 20:52 G	7462041.22	7462041.37	7462041.52	0.2647	0.0633
Mercury	15718-04-14 23:31 G	7462045.40	7462045.48	7462045.56	0.2648	0.2057
Mercury	15720-10-13 07:40 G	7462957.72	7462957.82	7462957.92	0.2683	0.1758
Mercury	15731-04-17 20:24 G	7466796.23	7466796.35	7466796.47	0.2649	0.0322
Mercury	15733-10-16 06:57 G	7467708.66	7467708.79	7467708.92	0.2682	0.0261
Mercury	15744-04-19 17:02 G	7471547.11	7471547.21	7471547.32	0.2650	0.1369
Mercury	15746-10-19 06:28 G	7472459.71	7472459.77	7472459.84	0.2682	0.2351
Mercury	15764-04-15 04:48 G	7478847.60	7478847.70	7478847.80	0.2648	0.1687
Mercury	15766-10-14 13:12 G	7479759.94	7479760.05	7479760.17	0.2683	0.1352
Mercury	15777-04-18 01:40 G	7483598.44	7483598.57	7483598.69	0.2649	0.0042
Mercury	15779-10-17 12:28 G	7484510.90	7484511.02	7484511.15	0.2682	0.0682
Mercury	15790-04-20 22:19 G	7488349.34	7488349.43	7488349.52	0.2650	0.1717
Mercury	15810-04-17 10:04 G	7495649.81	7495649.92	7495650.03	0.2648	0.1322
Mercury	15812-10-15 18:43 G	7496562.16	7496562.28	7496562.41	0.2683	0.0950
Mercury	15823-04-20 06:57 G	7500400.67	7500400.79	7500400.91	0.2649	0.0399
Mercury	15825-10-18 18:14 G	7501313.13	7501313.26	7501313.38	0.2682	0.1097
Mercury	15836-04-22 03:36 G	7505151.57	7505151.65	7505151.72	0.2650	0.2070
Mercury	15845-10-14 01:12 G	7508613.51	7508613.55	7508613.59	0.2684	0.2523
Venus	15847-10-10 07:40 G	7509339.66	7509339.82	7509339.98	0.2685	0.0144
Mercury	15856-04-17 15:21 G	7512452.02	7512452.14	7512452.26	0.2649	0.0952

Mercury	15858-10-17 00:14 G	7513364.39	7513364.51	7513364.64	0.2683	0.0545
Mercury	15869-04-20 12:14 G	7517202.89	7517203.01	7517203.13	0.2649	0.0758
Mercury	15871-10-19 23:45 G	7518115.38	7518115.49	7518115.60	0.2682	0.1512
Mercury	15882-04-23 08:52 G	7521953.82	7521953.87	7521953.91	0.2650	0.2418
Mercury	15889-04-15 23:31 G	7524503.43	7524503.48	7524503.54	0.2648	0.2343
Mercury	15891-10-15 06:43 G	7525415.71	7525415.78	7525415.86	0.2683	0.2123
Mercury	15902-04-19 20:38 G	7529254.24	7529254.36	7529254.48	0.2649	0.0594
Mercury	15904-10-18 05:45 G	7530166.61	7530166.74	7530166.88	0.2683	0.0156
Mercury	15915-04-22 17:31 G	7534005.12	7534005.23	7534005.34	0.2649	0.1114
Mercury	15917-10-21 05:16 G	7534917.63	7534917.72	7534917.81	0.2682	0.1932
Mercury	15935-04-18 04:48 G	7541305.62	7541305.70	7541305.79	0.2648	0.1977
Mercury	15937-10-16 12:14 G	7542217.92	7542218.01	7542218.11	0.2683	0.1720
Mercury	15948-04-20 01:55 G	7546056.46	7546056.58	7546056.70	0.2649	0.0227
Mercury	15950-10-19 11:31 G	7546968.84	7546968.98	7546969.11	0.2683	0.0292
Venus	15961-04-12 23:31 G	7550797.33	7550797.48	7550797.63	0.2647	0.0679
Mercury	15961-04-22 22:48 G	7550807.34	7550807.45	7550807.55	0.2649	0.1468
Mercury	15963-10-22 10:48 G	7551719.89	7551719.95	7551720.01	0.2682	0.2348
Mercury	15981-04-18 10:04 G	7558107.82	7558107.92	7558108.02	0.2648	0.1608
Mercury	15983-10-17 17:45 G	7559020.13	7559020.24	7559020.36	0.2683	0.1316
Mercury	15994-04-21 07:12 G	7562858.67	7562858.80	7562858.92	0.2649	0.0131
Mercury	15996-10-19 17:02 G	7563771.08	7563771.21	7563771.34	0.2683	0.0699

17TH MILLENNIUM CE

This is a list of transits visible from Earth in the 17th millennium CE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
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TRANSIT

TIME

Mercury	16007-04-24 03:50 G	7567609.58	7567609.66	7567609.75	0.2650	0.1821
Mercury	16027-04-19 15:36 G	7574910.03	7574910.15	7574910.26	0.2648	0.1239
Mercury	16029-10-17 23:16 G	7575822.35	7575822.47	7575822.60	0.2683	0.0914
Mercury	16040-04-21 12:28 G	7579660.90	7579661.02	7579661.14	0.2649	0.0492
Mercury	16042-10-20 22:33 G	7580573.32	7580573.44	7580573.56	0.2682	0.1115
Mercury	16053-04-24 09:07 G	7584411.81	7584411.88	7584411.95	0.2650	0.2165
Mercury	16060-04-16 23:31 G	7586961.48	7586961.48	7586961.49	0.2648	0.2637
Mercury	16062-10-16 06:00 G	7587873.70	7587873.75	7587873.80	0.2684	0.2473
Mercury	16073-04-19 20:52 G	7591712.25	7591712.37	7591712.48	0.2649	0.0874
Mercury	16075-10-19 04:48 G	7592624.57	7592624.70	7592624.83	0.2683	0.0512
Mercury	16086-04-22 17:45 G	7596463.12	7596463.24	7596463.36	0.2649	0.0850
Mercury	16088-10-21 04:04 G	7597375.56	7597375.67	7597375.78	0.2682	0.1529
Venus	16090-10-11 07:12 G	7598095.64	7598095.80	7598095.96	0.2685	0.0164
Mercury	16099-04-25 14:24 G	7601214.06	7601214.10	7601214.13	0.2650	0.2517
Mercury	16106-04-19 05:02 G	7603763.64	7603763.71	7603763.77	0.2648	0.2268
Mercury	16108-10-17 11:31 G	7604675.90	7604675.98	7604676.06	0.2684	0.2079
Mercury	16119-04-22 02:09 G	7608514.47	7608514.59	7608514.71	0.2649	0.0501
Mercury	16121-10-20 10:19 G	7609426.80	7609426.93	7609427.06	0.2683	0.0119
Mercury	16132-04-23 23:02 G	7613265.35	7613265.46	7613265.57	0.2649	0.1209
Mercury	16134-10-23 09:36 G	7614177.81	7614177.90	7614177.99	0.2682	0.1947
Mercury	16152-04-19 10:19 G	7620565.84	7620565.93	7620566.01	0.2648	0.1891
Mercury	16154-10-18 17:02 G	7621478.10	7621478.21	7621478.31	0.2683	0.1683
Mercury	16165-04-22 07:26 G	7625316.68	7625316.81	7625316.93	0.2649	0.0146
Mercury	16167-10-21 15:50 G	7626229.03	7626229.16	7626229.29	0.2683	0.0310
Mercury	16178-04-25 04:19 G	7630067.58	7630067.68	7630067.78	0.2649	0.1564
Mercury	16180-10-23 15:21 G	7630980.08	7630980.14	7630980.20	0.2682	0.2371
Mercury	16198-04-20 15:36 G	7637368.05	7637368.15	7637368.25	0.2648	0.1519
Mercury	16200-10-19 22:19 G	7638280.32	7638280.43	7638280.55	0.2683	0.1288

Venus	16204-04-15 02:09 G	7639553.44	7639553.59	7639553.74	0.2647	0.0720
Mercury	16211-04-24 12:43 G	7642118.90	7642119.03	7642119.15	0.2649	0.0229
Mercury	16213-10-22 21:21 G	7643031.27	7643031.39	7643031.52	0.2683	0.0719
Mercury	16224-04-26 09:21 G	7646869.81	7646869.89	7646869.98	0.2649	0.1913
Mercury	16244-04-21 20:52 G	7654170.26	7654170.37	7654170.48	0.2648	0.1150
Mercury	16246-10-21 03:50 G	7655082.54	7655082.66	7655082.78	0.2683	0.0886
Mercury	16257-04-24 18:00 G	7658921.13	7658921.25	7658921.37	0.2649	0.0586
Mercury	16259-10-24 02:52 G	7659833.50	7659833.62	7659833.74	0.2682	0.1126
Mercury	16270-04-27 14:38 G	7663672.05	7663672.11	7663672.17	0.2650	0.2267
Mercury	16277-04-20 04:48 G	7666221.68	7666221.70	7666221.73	0.2648	0.2567
Mercury	16279-10-19 10:33 G	7667133.89	7667133.94	7667134.00	0.2684	0.2429
Mercury	16290-04-23 02:09 G	7670972.47	7670972.59	7670972.71	0.2648	0.0786
Mercury	16292-10-21 09:21 G	7671884.76	7671884.89	7671885.02	0.2683	0.0479
Mercury	16303-04-26 23:16 G	7675723.35	7675723.47	7675723.58	0.2649	0.0945
Mercury	16305-10-25 08:38 G	7676635.75	7676635.86	7676635.96	0.2682	0.1548
Mercury	16316-04-28 19:55 G	7680474.31	7680474.33	7680474.35	0.2650	0.2613
Mercury	16323-04-22 10:19 G	7683023.86	7683023.93	7683024.00	0.2648	0.2184
Mercury	16325-10-20 16:04 G	7683936.09	7683936.17	7683936.25	0.2684	0.2038
Venus	16333-10-14 06:14 G	7686851.60	7686851.76	7686851.91	0.2685	0.0518
Mercury	16336-04-24 07:26 G	7687774.69	7687774.81	7687774.94	0.2649	0.0422
Mercury	16338-10-23 14:52 G	7688686.99	7688687.12	7688687.25	0.2683	0.0078
Mercury	16349-04-27 04:19 G	7692525.58	7692525.68	7692525.79	0.2649	0.1297
Mercury	16351-10-26 14:09 G	7693438.00	7693438.09	7693438.18	0.2682	0.1965
Mercury	16369-04-22 15:36 G	7699826.06	7699826.15	7699826.24	0.2648	0.1810
Mercury	16371-10-21 21:36 G	7700738.30	7700738.40	7700738.50	0.2684	0.1647
Mercury	16382-04-25 12:43 G	7704576.91	7704577.03	7704577.16	0.2649	0.0089
Mercury	16384-10-23 20:24 G	7705489.22	7705489.35	7705489.48	0.2683	0.0336
Mercury	16395-04-28 09:36 G	7709327.81	7709327.90	7709328.00	0.2649	0.1655
Mercury	16397-10-26 19:40 G	7710240.26	7710240.32	7710240.38	0.2682	0.2383
Mercury	16415-04-23 20:52 G	7716628.27	7716628.37	7716628.48	0.2648	0.1437

Mercury	16417-10-22 03:07 G	7717540.51	7717540.63	7717540.74	0.2683	0.1251
Mercury	16428-04-25 18:00 G	7721379.13	7721379.25	7721379.38	0.2649	0.0317
Mercury	16430-10-25 01:55 G	7722291.45	7722291.58	7722291.71	0.2683	0.0739
Mercury	16441-04-28 14:52 G	7726130.04	7726130.12	7726130.20	0.2649	0.2013
Venus	16447-04-17 04:48 G	7728309.55	7728309.70	7728309.85	0.2646	0.0747
Mercury	16461-04-24 02:09 G	7733430.48	7733430.59	7733430.71	0.2648	0.1074
Mercury	16463-10-23 08:24 G	7734342.73	7734342.85	7734342.98	0.2683	0.0854
Mercury	16474-04-26 23:16 G	7738181.35	7738181.47	7738181.60	0.2649	0.0680
Mercury	16476-10-25 07:26 G	7739093.69	7739093.81	7739093.93	0.2683	0.1154
Mercury	16487-04-29 20:09 G	7742932.29	7742932.34	7742932.40	0.2649	0.2364
Mercury	16494-04-22 10:19 G	7745481.89	7745481.93	7745481.97	0.2648	0.2481
Mercury	16496-10-20 15:21 G	7746394.08	7746394.14	7746394.19	0.2684	0.2396
Mercury	16507-04-26 07:26 G	7750232.69	7750232.81	7750232.94	0.2648	0.0706
Mercury	16509-10-24 13:55 G	7751144.95	7751145.08	7751145.21	0.2683	0.0452
Mercury	16520-04-28 04:33 G	7754983.58	7754983.69	7754983.81	0.2649	0.1032
Mercury	16522-10-27 12:57 G	7755895.94	7755896.04	7755896.15	0.2682	0.1562
Mercury	16540-04-23 15:36 G	7762284.07	7762284.15	7762284.23	0.2648	0.2107
Mercury	16542-10-22 20:38 G	7763196.28	7763196.36	7763196.45	0.2684	0.2002
Mercury	16553-04-26 12:57 G	7767034.91	7767035.04	7767035.16	0.2648	0.0335
Mercury	16555-10-25 19:26 G	7767947.18	7767947.31	7767947.44	0.2683	0.0061
Mercury	16566-04-29 09:50 G	7771785.81	7771785.91	7771786.02	0.2649	0.1397
Mercury	16568-10-27 18:28 G	7772698.18	7772698.27	7772698.36	0.2682	0.1974
Venus	16576-10-15 05:31 G	7775607.58	7775607.73	7775607.88	0.2685	0.0832
Mercury	16586-04-24 20:52 G	7779086.28	7779086.37	7779086.47	0.2648	0.1735
Mercury	16588-10-23 02:09 G	7779998.49	7779998.59	7779998.70	0.2684	0.1605
Mercury	16599-04-27 18:14 G	7783837.13	7783837.26	7783837.38	0.2649	0.0068
Mercury	16601-10-27 00:57 G	7784749.41	7784749.54	7784749.67	0.2683	0.0360
Mercury	16612-04-30 15:07 G	7788588.04	7788588.13	7788588.23	0.2649	0.1754
Mercury	16614-10-30 00:00 G	7789500.44	7789500.50	7789500.56	0.2682	0.2388
Mercury	16632-04-26 02:09 G	7795888.48	7795888.59	7795888.70	0.2648	0.1363

Mercury	16634-10-25 07:40 G	7796800.71	7796800.82	7796800.94	0.2684	0.1206
Mercury	16645-04-28 23:31 G	7800639.35	7800639.48	7800639.60	0.2649	0.0400
Mercury	16647-10-28 06:28 G	7801551.65	7801551.77	7801551.90	0.2683	0.0772
Mercury	16658-05-01 20:24 G	7805390.28	7805390.35	7805390.43	0.2649	0.2108
Mercury	16678-04-27 07:40 G	7812690.70	7812690.82	7812690.93	0.2648	0.0990
Mercury	16680-10-25 13:12 G	7813602.92	7813603.05	7813603.17	0.2683	0.0813
Venus	16690-04-19 07:26 G	7817065.66	7817065.81	7817065.96	0.2647	0.0792
Mercury	16691-04-30 04:48 G	7817441.58	7817441.70	7817441.82	0.2649	0.0762
Mercury	16693-10-28 12:00 G	7818353.88	7818354.00	7818354.12	0.2683	0.1177
Mercury	16704-05-03 01:40 G	7822192.53	7822192.57	7822192.62	0.2649	0.2460
Mercury	16711-04-26 15:36 G	7824742.10	7824742.15	7824742.20	0.2648	0.2408
Mercury	16713-10-24 19:55 G	7825654.28	7825654.33	7825654.40	0.2684	0.2349
Mercury	16724-04-28 12:57 G	7829492.92	7829493.04	7829493.16	0.2648	0.0611
Mercury	16726-10-27 18:43 G	7830405.15	7830405.28	7830405.40	0.2683	0.0423
Mercury	16737-05-01 10:04 G	7834243.81	7834243.92	7834244.03	0.2649	0.1131
Mercury	16739-10-30 17:31 G	7835156.12	7835156.23	7835156.34	0.2682	0.1582
Mercury	16757-04-26 20:52 G	7841544.29	7841544.37	7841544.45	0.2648	0.2030
Mercury	16759-10-26 01:26 G	7842456.48	7842456.56	7842456.65	0.2684	0.1958
Mercury	16770-04-29 18:14 G	7846295.14	7846295.26	7846295.39	0.2648	0.0243
Mercury	16772-10-28 00:00 G	7847207.37	7847207.50	7847207.63	0.2683	0.0075
Mercury	16783-05-02 15:21 G	7851046.04	7851046.14	7851046.25	0.2649	0.1492
Mercury	16785-10-30 23:02 G	7851958.37	7851958.46	7851958.55	0.2682	0.1992
Mercury	16803-04-28 02:09 G	7858346.49	7858346.59	7858346.69	0.2648	0.1653
Mercury	16805-10-26 06:57 G	7859258.68	7859258.79	7859258.89	0.2684	0.1567
Mercury	16816-04-29 23:31 G	7863097.36	7863097.48	7863097.61	0.2649	0.0147
Mercury	16818-10-29 05:31 G	7864009.60	7864009.73	7864009.86	0.2683	0.0390
Venus	16819-10-18 04:48 G	7864363.55	7864363.70	7864363.84	0.2685	0.1174
Mercury	16829-05-02 20:38 G	7867848.27	7867848.36	7867848.45	0.2649	0.1850
Mercury	16831-11-01 04:33 G	7868760.63	7868760.69	7868760.75	0.2682	0.2406
Mercury	16849-04-28 07:40 G	7875148.71	7875148.82	7875148.93	0.2648	0.1277

Mercury	16851-10-27 12:28 G	7876060.90	7876061.02	7876061.13	0.2684	0.1178
Mercury	16862-05-01 04:48 G	7879899.58	7879899.70	7879899.83	0.2649	0.0499
Mercury	16864-10-29 11:02 G	7880811.83	7880811.96	7880812.08	0.2683	0.0789
Mercury	16875-05-04 01:55 G	7884650.51	7884650.58	7884650.65	0.2649	0.2204
Mercury	16884-10-24 19:26 G	7888112.31	7888112.31	7888112.31	0.2684	0.2684
Mercury	16895-04-29 12:57 G	7891950.92	7891951.04	7891951.16	0.2648	0.0899
Mercury	16897-10-27 17:45 G	7892863.12	7892863.24	7892863.37	0.2683	0.0778
Mercury	16908-05-02 10:19 G	7896701.81	7896701.93	7896702.05	0.2649	0.0863
Mercury	16910-10-31 16:33 G	7897614.07	7897614.19	7897614.31	0.2683	0.1195
Mercury	16921-05-05 07:12 G	7901452.77	7901452.80	7901452.83	0.2649	0.2562
Mercury	16928-04-27 20:38 G	7904002.31	7904002.36	7904002.42	0.2648	0.2333
Mercury	16930-10-27 00:57 G	7904914.47	7904914.54	7904914.60	0.2684	0.2296
Venus	16933-04-21 10:04 G	7905821.76	7905821.92	7905822.07	0.2646	0.0819
Mercury	16941-04-30 18:14 G	7908753.14	7908753.26	7908753.39	0.2648	0.0530
Mercury	16943-10-29 23:16 G	7909665.34	7909665.47	7909665.60	0.2683	0.0381
Mercury	16954-05-03 15:36 G	7913504.04	7913504.15	7913504.26	0.2649	0.1223
Mercury	16956-10-31 22:04 G	7914416.32	7914416.42	7914416.52	0.2683	0.1607
Mercury	16974-04-29 02:09 G	7920804.50	7920804.59	7920804.67	0.2648	0.1951
Mercury	16976-10-27 06:14 G	7921716.67	7921716.76	7921716.85	0.2684	0.1912
Mercury	16987-05-01 23:31 G	7925555.36	7925555.48	7925555.61	0.2648	0.0181
Mercury	16989-10-30 04:48 G	7926467.57	7926467.70	7926467.83	0.2683	0.0030
Mercury	17000-05-04 20:52 G	7930306.27	7930306.37	7930306.47	0.2649	0.1584

18TH MILLENNIUM CE

This is a list of transits visible from Earth in the 18th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	17002-11-03 03:36	G	7931218.57	7931218.65	7931218.74	0.2682	0.2017	
Mercury	17020-04-30 07:26	G	7937606.71	7937606.81	7937606.92	0.2648	0.1568	
Mercury	17022-10-29 11:45	G	7938518.88	7938518.99	7938519.09	0.2684	0.1525	
Mercury	17033-05-03 05:02	G	7942357.58	7942357.71	7942357.83	0.2648	0.0228	
Mercury	17035-11-01 10:19	G	7943269.80	7943269.93	7943270.05	0.2683	0.0424	
Mercury	17046-05-06 02:09	G	7947108.50	7947108.59	7947108.67	0.2649	0.1944	
Mercury	17048-11-03 09:07	G	7948020.83	7948020.88	7948020.93	0.2682	0.2428	
Venus	17054-10-22 13:55	G	7950200.03	7950200.08	7950200.14	0.2685	0.2508	
Venus	17062-10-20 04:04	G	7953119.54	7953119.67	7953119.80	0.2686	0.1492	
Mercury	17066-05-01 12:57	G	7954408.92	7954409.04	7954409.15	0.2648	0.1189	
Mercury	17068-10-29 17:02	G	7955321.10	7955321.21	7955321.33	0.2684	0.1134	
Mercury	17079-05-04 10:19	G	7959159.81	7959159.93	7959160.05	0.2649	0.0589	
Mercury	17081-11-01 15:50	G	7960072.03	7960072.16	7960072.28	0.2683	0.0824	
Mercury	17092-05-06 07:26	G	7963910.75	7963910.81	7963910.87	0.2649	0.2305	
Mercury	17099-04-29 20:38	G	7966460.35	7966460.36	7966460.37	0.2648	0.2633	
Mercury	17101-10-29 00:14	G	7967372.49	7967372.51	7967372.53	0.2684	0.2635	
Mercury	17112-05-02 18:14	G	7971211.14	7971211.26	7971211.38	0.2648	0.0814	
Mercury	17114-10-31 22:33	G	7972123.31	7972123.44	7972123.56	0.2683	0.0744	
Mercury	17125-05-05 15:36	G	7975962.03	7975962.15	7975962.27	0.2649	0.0951	
Mercury	17127-11-03 21:07	G	7976874.27	7976874.38	7976874.50	0.2683	0.1223	
Mercury	17145-05-01 01:55	G	7983262.52	7983262.58	7983262.65	0.2648	0.2255	
Mercury	17147-10-30 05:31	G	7984174.67	7984174.73	7984174.80	0.2684	0.2255	
Mercury	17158-05-03 23:31	G	7988013.36	7988013.48	7988013.61	0.2648	0.0444	
Mercury	17160-11-01 04:04	G	7988925.54	7988925.67	7988925.80	0.2683	0.0350	
Mercury	17171-05-06 20:52	G	7992764.26	7992764.37	7992764.48	0.2649	0.1317	
Mercury	17173-11-04 02:38	G	7993676.51	7993676.61	7993676.72	0.2683	0.1627	
Venus	17176-04-23 12:43	G	7994577.88	7994578.03	7994578.18	0.2646	0.0870	

Mercury	17191-05-02 07:26 G	8000064.72	8000064.81	8000064.90	0.2648	0.1866
Mercury	17193-10-30 11:02 G	8000976.87	8000976.96	8000977.05	0.2684	0.1863
Mercury	17204-05-04 05:02 G	8004815.58	8004815.71	8004815.83	0.2648	0.0114
Mercury	17206-11-02 09:36 G	8005727.77	8005727.90	8005728.03	0.2683	0.0104
Mercury	17217-05-07 02:09 G	8009566.50	8009566.59	8009566.69	0.2649	0.1679
Mercury	17219-11-05 08:09 G	8010478.76	8010478.84	8010478.92	0.2683	0.2035
Mercury	17237-05-02 12:43 G	8016866.93	8016867.03	8016867.14	0.2648	0.1489
Mercury	17239-10-31 16:33 G	8017779.08	8017779.19	8017779.29	0.2684	0.1480
Mercury	17250-05-05 10:19 G	8021617.80	8021617.93	8021618.05	0.2648	0.0307
Mercury	17252-11-02 14:52 G	8022530.00	8022530.12	8022530.25	0.2683	0.0460
Mercury	17263-05-08 07:26 G	8026368.74	8026368.81	8026368.89	0.2649	0.2044
Mercury	17265-11-05 13:40 G	8027281.02	8027281.07	8027281.12	0.2682	0.2444
Mercury	17283-05-03 18:14 G	8033669.14	8033669.26	8033669.37	0.2648	0.1110
Mercury	17285-10-31 21:50 G	8034581.30	8034581.41	8034581.53	0.2683	0.1091
Mercury	17296-05-05 15:36 G	8038420.03	8038420.15	8038420.27	0.2649	0.0672
Venus	17297-10-23 13:40 G	8038955.98	8038956.07	8038956.16	0.2685	0.2206
Mercury	17298-11-03 20:24 G	8039332.23	8039332.35	8039332.47	0.2683	0.0849
Venus	17305-10-22 03:36 G	8041875.53	8041875.65	8041875.76	0.2685	0.1802
Mercury	17309-05-09 12:57 G	8043170.99	8043171.04	8043171.09	0.2649	0.2405
Mercury	17316-05-02 01:40 G	8045720.55	8045720.57	8045720.60	0.2648	0.2561
Mercury	17318-10-31 05:02 G	8046632.68	8046632.71	8046632.74	0.2684	0.2586
Mercury	17329-05-04 23:31 G	8050471.36	8050471.48	8050471.60	0.2648	0.0730
Mercury	17331-11-03 03:21 G	8051383.52	8051383.64	8051383.76	0.2683	0.0698
Mercury	17342-05-07 20:52 G	8055222.26	8055222.37	8055222.49	0.2649	0.1050
Mercury	17344-11-05 01:55 G	8056134.46	8056134.58	8056134.69	0.2683	0.1253
Mercury	17362-05-03 07:12 G	8062522.73	8062522.80	8062522.87	0.2648	0.2169
Mercury	17364-10-31 10:33 G	8063434.87	8063434.94	8063435.01	0.2684	0.2203
Mercury	17375-05-06 04:48 G	8067273.58	8067273.70	8067273.83	0.2648	0.0360
Mercury	17377-11-03 08:52 G	8068185.74	8068185.87	8068185.99	0.2683	0.0316
Mercury	17388-05-08 02:24 G	8072024.49	8072024.60	8072024.70	0.2649	0.1413

Mercury	17390-11-06 07:12 G	8072936.70	8072936.80	8072936.91	0.2683	0.1656
Mercury	17408-05-04 12:28 G	8079324.93	8079325.02	8079325.12	0.2648	0.1792
Mercury	17410-11-02 15:50 G	8080237.07	8080237.16	8080237.25	0.2684	0.1825
Venus	17419-04-26 15:21 G	8083333.99	8083334.14	8083334.29	0.2646	0.0913
Mercury	17421-05-07 10:19 G	8084075.80	8084075.93	8084076.06	0.2648	0.0051
Mercury	17423-11-05 14:09 G	8084987.96	8084988.09	8084988.22	0.2683	0.0088
Venus	17427-04-24 07:55 G	8086253.81	8086253.83	8086253.85	0.2646	0.2618
Mercury	17434-05-10 07:40 G	8088826.73	8088826.82	8088826.91	0.2649	0.1780
Mercury	17436-11-07 12:43 G	8089738.95	8089739.03	8089739.12	0.2683	0.2058
Mercury	17454-05-05 18:00 G	8096127.14	8096127.25	8096127.36	0.2648	0.1405
Mercury	17456-11-02 21:21 G	8097039.28	8097039.39	8097039.50	0.2684	0.1434
Mercury	17467-05-08 15:36 G	8100878.02	8100878.15	8100878.28	0.2648	0.0395
Mercury	17469-11-05 19:40 G	8101790.19	8101790.32	8101790.44	0.2683	0.0480
Mercury	17480-05-10 12:57 G	8105628.97	8105629.04	8105629.11	0.2649	0.2141
Mercury	17482-11-08 18:14 G	8106541.21	8106541.26	8106541.31	0.2682	0.2461
Mercury	17500-05-06 23:16 G	8112929.36	8112929.47	8112929.59	0.2648	0.1032
Mercury	17502-11-05 02:38 G	8113841.50	8113841.61	8113841.73	0.2684	0.1050
Mercury	17513-05-09 20:52 G	8117680.25	8117680.37	8117680.50	0.2649	0.0775
Mercury	17515-11-08 01:12 G	8118592.42	8118592.55	8118592.67	0.2683	0.0885
Mercury	17526-05-12 18:14 G	8122431.22	8122431.26	8122431.30	0.2649	0.2503
Mercury	17533-05-05 06:57 G	8124980.75	8124980.79	8124980.83	0.2648	0.2484
Mercury	17535-11-03 10:04 G	8125892.88	8125892.92	8125892.96	0.2684	0.2532
Venus	17540-10-26 12:43 G	8127711.92	8127712.03	8127712.15	0.2685	0.1873
Mercury	17546-05-08 04:48 G	8129731.57	8129731.70	8129731.82	0.2648	0.0646
Venus	17548-10-24 02:52 G	8130631.52	8130631.62	8130631.71	0.2685	0.2130
Mercury	17548-11-05 08:09 G	8130643.72	8130643.84	8130643.96	0.2683	0.0655
Mercury	17559-05-11 02:24 G	8134482.48	8134482.60	8134482.71	0.2649	0.1136
Mercury	17561-11-08 06:28 G	8135394.66	8135394.77	8135394.89	0.2683	0.1283
Mercury	17579-05-06 12:14 G	8141782.94	8141783.01	8141783.09	0.2648	0.2099
Mercury	17581-11-03 15:21 G	8142695.07	8142695.14	8142695.22	0.2684	0.2156

Mercury	17592-05-08 10:04 G	8146533.80	8146533.92	8146534.05	0.2648	0.0277
Mercury	17594-11-06 13:26 G	8147445.94	8147446.06	8147446.19	0.2683	0.0282
Mercury	17605-05-11 07:40 G	8151284.72	8151284.82	8151284.92	0.2649	0.1508
Mercury	17607-11-09 12:00 G	8152196.90	8152197.00	8152197.10	0.2683	0.1683
Mercury	17625-05-06 17:45 G	8158585.14	8158585.24	8158585.34	0.2648	0.1707
Mercury	17627-11-04 20:52 G	8159497.27	8159497.37	8159497.46	0.2684	0.1772
Mercury	17638-05-09 15:36 G	8163336.02	8163336.15	8163336.28	0.2648	0.0123
Mercury	17640-11-06 18:57 G	8164248.16	8164248.29	8164248.42	0.2683	0.0120
Mercury	17651-05-12 12:57 G	8168086.95	8168087.04	8168087.13	0.2649	0.1872
Mercury	17653-11-09 17:31 G	8168999.15	8168999.23	8168999.31	0.2683	0.2080
Venus	17662-04-27 18:00 G	8172090.11	8172090.25	8172090.40	0.2647	0.0944
Venus	17670-04-25 10:33 G	8175009.91	8175009.94	8175009.97	0.2646	0.2584
Mercury	17671-05-07 23:16 G	8175387.36	8175387.47	8175387.58	0.2648	0.1329
Mercury	17673-11-05 02:09 G	8176299.48	8176299.59	8176299.70	0.2684	0.1391
Mercury	17684-05-09 20:52 G	8180138.25	8180138.37	8180138.50	0.2649	0.0489
Mercury	17686-11-08 00:28 G	8181050.39	8181050.52	8181050.64	0.2683	0.0519
Mercury	17697-05-12 18:14 G	8184889.20	8184889.26	8184889.33	0.2649	0.2241
Mercury	17699-11-10 23:02 G	8185801.41	8185801.46	8185801.50	0.2682	0.2486
Mercury	17717-05-09 04:33 G	8192189.57	8192189.69	8192189.81	0.2648	0.0940
Mercury	17719-11-07 07:26 G	8193101.70	8193101.81	8193101.93	0.2683	0.1011
Mercury	17730-05-12 02:09 G	8196940.47	8196940.59	8196940.71	0.2649	0.0860
Mercury	17732-11-09 05:45 G	8197852.62	8197852.74	8197852.86	0.2683	0.0911
Mercury	17743-05-14 23:31 G	8201691.46	8201691.48	8201691.51	0.2649	0.2602
Mercury	17750-05-07 12:00 G	8204240.95	8204241.00	8204241.05	0.2648	0.2410
Mercury	17752-11-04 14:52 G	8205153.08	8205153.12	8205153.17	0.2684	0.2485
Mercury	17763-05-10 10:04 G	8208991.79	8208991.92	8208992.04	0.2648	0.0562
Mercury	17765-11-07 12:57 G	8209903.91	8209904.04	8209904.16	0.2683	0.0626
Mercury	17776-05-12 07:40 G	8213742.71	8213742.82	8213742.93	0.2649	0.1234
Mercury	17778-11-10 11:16 G	8214654.86	8214654.97	8214655.08	0.2683	0.1304
Venus	17783-10-28 12:14 G	8216467.89	8216468.01	8216468.14	0.2685	0.1573

Venus	17791-10-26 02:09 G	8219387.53	8219387.59	8219387.66	0.2685	0.2439
Mercury	17796-05-07 17:31 G	8221043.15	8221043.23	8221043.31	0.2648	0.2021
Mercury	17798-11-05 20:24 G	8221955.27	8221955.35	8221955.42	0.2684	0.2101
Mercury	17809-05-11 15:21 G	8225794.01	8225794.14	8225794.27	0.2648	0.0181
Mercury	17811-11-09 18:28 G	8226706.14	8226706.27	8226706.39	0.2683	0.0246
Mercury	17822-05-14 12:57 G	8230544.94	8230545.04	8230545.14	0.2649	0.1599
Mercury	17824-11-11 16:48 G	8231457.10	8231457.20	8231457.30	0.2683	0.1701
Mercury	17842-05-09 22:48 G	8237845.35	8237845.45	8237845.56	0.2648	0.1638
Mercury	17844-11-07 01:40 G	8238757.47	8238757.57	8238757.67	0.2684	0.1723
Mercury	17855-05-12 20:38 G	8242596.24	8242596.36	8242596.49	0.2648	0.0215
Mercury	17857-11-09 23:45 G	8243508.36	8243508.49	8243508.62	0.2683	0.0169
Mercury	17868-05-14 18:14 G	8247347.18	8247347.26	8247347.35	0.2649	0.1970
Mercury	17870-11-12 22:19 G	8248259.35	8248259.43	8248259.50	0.2683	0.2111
Mercury	17888-05-10 04:19 G	8254647.57	8254647.68	8254647.80	0.2648	0.1244
Mercury	17890-11-08 06:57 G	8255559.68	8255559.79	8255559.90	0.2683	0.1349
Mercury	17901-05-14 02:09 G	8259398.46	8259398.59	8259398.71	0.2649	0.0573
Mercury	17903-11-12 05:16 G	8260310.59	8260310.72	8260310.84	0.2683	0.0554
Venus	17905-04-30 20:38 G	8260846.22	8260846.36	8260846.51	0.2646	0.0984
Venus	17913-04-28 13:12 G	8263766.01	8263766.05	8263766.09	0.2646	0.2563
Mercury	17914-05-16 23:31 G	8264149.43	8264149.48	8264149.54	0.2649	0.2331
Mercury	17916-11-14 03:36 G	8265061.61	8265061.65	8265061.69	0.2683	0.2508
Mercury	17934-05-12 09:50 G	8271449.79	8271449.91	8271450.03	0.2648	0.0861
Mercury	17936-11-09 12:28 G	8272361.90	8272362.02	8272362.14	0.2683	0.0967
Mercury	17947-05-15 07:26 G	8276200.69	8276200.81	8276200.93	0.2649	0.0953
Mercury	17949-11-12 10:33 G	8277112.82	8277112.94	8277113.06	0.2683	0.0940
Mercury	17967-05-10 17:16 G	8283501.16	8283501.22	8283501.27	0.2648	0.2338
Mercury	17969-11-07 19:55 G	8284413.28	8284413.33	8284413.38	0.2684	0.2431
Mercury	17980-05-12 15:07 G	8288252.01	8288252.13	8288252.26	0.2648	0.0479
Mercury	17982-11-10 17:45 G	8289164.12	8289164.24	8289164.37	0.2683	0.0583
Mercury	17993-05-15 12:57 G	8293002.93	8293003.04	8293003.15	0.2649	0.1324

Mercury 17995-11-13 16:04 G 8293915.06 8293915.17 8293915.28 0.2683 0.1332

19TH MILLENNIUM CE

This is a list of transits visible from Earth in the 19th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	18013-05-10 22:33	G	8300303.35	8300303.44	8300303.53	0.2648	0.1947	
Mercury	18015-11-09 01:12	G	8301215.47	8301215.55	8301215.63	0.2684	0.2058	
Mercury	18026-05-13 20:38	G	8305054.23	8305054.36	8305054.49	0.2648	0.0121	
Venus	18026-10-30 11:31	G	8305223.84	8305223.98	8305224.12	0.2685	0.1221	
Mercury	18028-11-10 23:16	G	8305966.34	8305966.47	8305966.59	0.2683	0.0205	
Mercury	18039-05-16 18:14	G	8309805.16	8309805.26	8309805.36	0.2649	0.1693	
Mercury	18041-11-13 21:21	G	8310717.30	8310717.39	8310717.49	0.2683	0.1732	
Mercury	18059-05-12 04:04	G	8317105.57	8317105.67	8317105.77	0.2648	0.1553	
Mercury	18061-11-09 06:43	G	8318017.68	8318017.78	8318017.87	0.2684	0.1686	
Mercury	18072-05-14 01:55	G	8321856.45	8321856.58	8321856.71	0.2648	0.0287	
Mercury	18074-11-12 04:33	G	8322768.56	8322768.69	8322768.82	0.2683	0.0191	
Mercury	18085-05-16 23:31	G	8326607.40	8326607.48	8326607.56	0.2649	0.2058	
Mercury	18087-11-15 02:52	G	8327519.54	8327519.62	8327519.70	0.2683	0.2123	
Mercury	18105-05-13 09:21	G	8333907.78	8333907.89	8333908.01	0.2648	0.1171	
Mercury	18107-11-11 12:00	G	8334819.89	8334820.00	8334820.11	0.2684	0.1301	
Mercury	18118-05-16 07:26	G	8338658.68	8338658.81	8338658.93	0.2649	0.0662	
Mercury	18120-11-13 10:04	G	8339570.79	8339570.92	8339571.04	0.2683	0.0584	
Mercury	18131-05-19 05:02	G	8343409.66	8343409.71	8343409.75	0.2649	0.2432	

Mercury	18133-11-16 08:24 G	8344321.80	8344321.85	8344321.89	0.2682	0.2522
Venus	18148-05-01 23:02 G	8349602.31	8349602.46	8349602.61	0.2647	0.0986
Mercury	18151-05-14 14:52 G	8350710.00	8350710.12	8350710.24	0.2648	0.0784
Mercury	18153-11-11 17:16 G	8351622.10	8351622.22	8351622.34	0.2683	0.0921
Venus	18156-04-29 15:36 G	8352522.11	8352522.15	8352522.19	0.2646	0.2541
Mercury	18164-05-16 12:43 G	8355460.91	8355461.03	8355461.15	0.2649	0.1034
Mercury	18166-11-14 15:21 G	8356373.02	8356373.14	8356373.26	0.2683	0.0970
Mercury	18184-05-11 22:04 G	8362761.36	8362761.42	8362761.49	0.2648	0.2268
Mercury	18186-11-10 00:57 G	8363673.48	8363673.54	8363673.59	0.2684	0.2381
Mercury	18197-05-14 20:24 G	8367512.22	8367512.35	8367512.47	0.2648	0.0413
Mercury	18199-11-12 22:48 G	8368424.32	8368424.45	8368424.57	0.2683	0.0546
Mercury	18210-05-18 18:14 G	8372263.15	8372263.26	8372263.36	0.2649	0.1410
Mercury	18212-11-15 20:52 G	8373175.26	8373175.37	8373175.48	0.2683	0.1366
Mercury	18230-05-14 03:36 G	8379563.56	8379563.65	8379563.74	0.2648	0.1870
Mercury	18232-11-11 06:14 G	8380475.68	8380475.76	8380475.84	0.2684	0.2009
Mercury	18243-05-17 01:40 G	8384314.44	8384314.57	8384314.70	0.2648	0.0052
Mercury	18245-11-14 04:04 G	8385226.54	8385226.67	8385226.80	0.2683	0.0161
Mercury	18256-05-18 23:31 G	8389065.38	8389065.48	8389065.57	0.2649	0.1781
Mercury	18258-11-17 02:09 G	8389977.50	8389977.59	8389977.69	0.2683	0.1756
Venus	18269-11-01 11:02 G	8393979.81	8393979.96	8393980.11	0.2685	0.0921
Mercury	18276-05-14 09:07 G	8396365.77	8396365.88	8396365.99	0.2648	0.1482
Mercury	18278-11-12 11:31 G	8397277.88	8397277.98	8397278.08	0.2683	0.1637
Mercury	18289-05-17 07:12 G	8401116.67	8401116.80	8401116.93	0.2649	0.0369
Mercury	18291-11-15 09:21 G	8402028.77	8402028.89	8402029.02	0.2683	0.0230
Mercury	18302-05-21 04:48 G	8405867.63	8405867.70	8405867.78	0.2649	0.2157
Mercury	18304-11-18 07:40 G	8406779.74	8406779.82	8406779.89	0.2682	0.2148
Mercury	18322-05-16 14:38 G	8413167.99	8413168.11	8413168.23	0.2648	0.1093
Mercury	18324-11-13 16:48 G	8414080.09	8414080.20	8414080.32	0.2683	0.1261
Mercury	18335-05-19 12:28 G	8417918.90	8417919.02	8417919.15	0.2649	0.0747
Mercury	18337-11-16 14:52 G	8418830.99	8418831.12	8418831.24	0.2683	0.0613

Mercury	18348-05-21 10:19 G	8422669.89	8422669.93	8422669.96	0.2649	0.2525
Mercury	18350-11-19 12:57 G	8423582.01	8423582.04	8423582.08	0.2682	0.2545
Mercury	18355-05-14 21:50 G	8425219.38	8425219.41	8425219.43	0.2648	0.2594
Mercury	18368-05-16 19:55 G	8429970.21	8429970.33	8429970.46	0.2648	0.0708
Mercury	18370-11-14 22:19 G	8430882.31	8430882.43	8430882.55	0.2683	0.0888
Mercury	18381-05-19 18:00 G	8434721.13	8434721.25	8434721.36	0.2649	0.1124
Mercury	18383-11-17 20:09 G	8435633.22	8435633.34	8435633.46	0.2683	0.1000
Venus	18391-05-05 01:40 G	8438358.43	8438358.57	8438358.72	0.2647	0.1018
Venus	18399-05-02 18:00 G	8441278.21	8441278.25	8441278.30	0.2647	0.2534
Mercury	18401-05-15 03:07 G	8442021.56	8442021.63	8442021.71	0.2648	0.2197
Mercury	18403-11-13 06:00 G	8442933.69	8442933.75	8442933.81	0.2684	0.2329
Mercury	18414-05-18 01:26 G	8446772.43	8446772.56	8446772.69	0.2648	0.0317
Mercury	18416-11-15 03:36 G	8447684.53	8447684.65	8447684.78	0.2683	0.0503
Mercury	18427-05-20 23:16 G	8451523.37	8451523.47	8451523.58	0.2649	0.1498
Mercury	18429-11-18 01:40 G	8452435.46	8452435.57	8452435.68	0.2683	0.1390
Mercury	18447-05-16 08:38 G	8458823.77	8458823.86	8458823.96	0.2648	0.1806
Mercury	18449-11-13 11:16 G	8459735.88	8459735.97	8459736.05	0.2683	0.1962
Mercury	18460-05-18 06:57 G	8463574.66	8463574.79	8463574.92	0.2649	0.0108
Mercury	18462-11-16 08:52 G	8464486.75	8464486.87	8464487.00	0.2683	0.0141
Mercury	18473-05-21 04:48 G	8468325.61	8468325.70	8468325.79	0.2649	0.1875
Mercury	18475-11-19 06:57 G	8469237.70	8469237.79	8469237.89	0.2683	0.1783
Mercury	18493-05-16 14:09 G	8475625.98	8475626.09	8475626.20	0.2648	0.1407
Mercury	18495-11-14 16:33 G	8476538.09	8476538.19	8476538.29	0.2683	0.1585
Mercury	18506-05-20 12:14 G	8480376.88	8480377.01	8480377.14	0.2649	0.0447
Mercury	18508-11-17 14:24 G	8481288.97	8481289.10	8481289.23	0.2683	0.0266
Venus	18512-11-03 10:04 G	8482735.77	8482735.92	8482736.08	0.2685	0.0581
Mercury	18519-05-23 10:04 G	8485127.85	8485127.92	8485127.99	0.2649	0.2244
Mercury	18521-11-20 12:28 G	8486039.95	8486040.02	8486040.09	0.2682	0.2176
Mercury	18539-05-18 19:40 G	8492428.20	8492428.32	8492428.44	0.2648	0.1018
Mercury	18541-11-15 21:50 G	8493340.30	8493340.41	8493340.52	0.2683	0.1214

Mercury	18552-05-20 17:45 G	8497179.11	8497179.24	8497179.36	0.2649	0.0834
Mercury	18554-11-18 19:40 G	8498091.20	8498091.32	8498091.45	0.2683	0.0652
Mercury	18565-05-23 15:21 G	8501930.13	8501930.14	8501930.16	0.2649	0.2619
Mercury	18567-11-21 17:45 G	8502842.21	8502842.24	8502842.28	0.2682	0.2572
Mercury	18572-05-16 02:38 G	8504479.58	8504479.61	8504479.65	0.2648	0.2524
Mercury	18574-11-14 05:31 G	8505391.72	8505391.73	8505391.75	0.2684	0.2649
Mercury	18585-05-19 01:12 G	8509230.42	8509230.55	8509230.67	0.2648	0.0626
Mercury	18587-11-17 03:07 G	8510142.51	8510142.63	8510142.75	0.2683	0.0842
Mercury	18598-05-21 23:02 G	8513981.35	8513981.46	8513981.58	0.2649	0.1213
Mercury	18600-11-20 01:12 G	8514893.43	8514893.55	8514893.66	0.2683	0.1035
Mercury	18618-05-18 08:09 G	8521281.77	8521281.84	8521281.92	0.2648	0.2126
Mercury	18620-11-15 10:48 G	8522193.89	8522193.95	8522194.02	0.2683	0.2285
Mercury	18631-05-21 06:28 G	8526032.64	8526032.77	8526032.90	0.2649	0.0239
Mercury	18633-11-18 08:38 G	8526944.73	8526944.86	8526944.98	0.2683	0.0467
Venus	18634-05-07 04:04 G	8527114.52	8527114.67	8527114.82	0.2647	0.1029
Venus	18642-05-04 20:38 G	8530034.31	8530034.36	8530034.40	0.2647	0.2515
Mercury	18644-05-23 04:33 G	8530783.59	8530783.69	8530783.79	0.2649	0.1593
Mercury	18646-11-21 06:28 G	8531695.66	8531695.77	8531695.88	0.2683	0.1419
Mercury	18664-05-18 13:40 G	8538083.97	8538084.07	8538084.17	0.2648	0.1727
Mercury	18666-11-16 16:19 G	8538996.09	8538996.18	8538996.26	0.2683	0.1909
Mercury	18677-05-21 12:00 G	8542834.87	8542835.00	8542835.13	0.2649	0.0155
Mercury	18679-11-19 13:55 G	8543746.95	8543747.08	8543747.21	0.2683	0.0082
Mercury	18690-05-24 09:50 G	8547585.83	8547585.91	8547586.00	0.2649	0.1966
Mercury	18692-11-21 11:45 G	8548497.90	8548497.99	8548498.09	0.2682	0.1805
Mercury	18710-05-20 19:12 G	8554886.19	8554886.30	8554886.41	0.2648	0.1338
Mercury	18712-11-17 21:36 G	8555798.30	8555798.40	8555798.50	0.2683	0.1537
Mercury	18723-05-23 17:16 G	8559637.10	8559637.22	8559637.35	0.2649	0.0540
Mercury	18725-11-20 19:12 G	8560549.18	8560549.30	8560549.43	0.2683	0.0308
Mercury	18736-05-25 15:21 G	8564388.08	8564388.14	8564388.20	0.2649	0.2343
Mercury	18738-11-23 17:16 G	8565300.15	8565300.22	8565300.29	0.2682	0.2198

Venus	18755-11-06 09:36 G	8571491.75	8571491.90	8571492.06	0.2684	0.0285
Mercury	18756-05-21 00:43 G	8571688.41	8571688.53	8571688.65	0.2649	0.0939
Mercury	18758-11-19 02:52 G	8572600.51	8572600.62	8572600.74	0.2683	0.1162
Mercury	18769-05-23 22:48 G	8576439.33	8576439.45	8576439.57	0.2649	0.0918
Mercury	18771-11-22 00:43 G	8577351.40	8577351.53	8577351.65	0.2683	0.0687
Mercury	18784-11-23 22:33 G	8582102.41	8582102.44	8582102.47	0.2682	0.2593
Mercury	18789-05-19 07:40 G	8583739.77	8583739.82	8583739.87	0.2648	0.2455
Mercury	18791-11-17 10:48 G	8584651.92	8584651.95	8584651.98	0.2683	0.2590
Mercury	18802-05-22 06:00 G	8588490.63	8588490.75	8588490.88	0.2649	0.0555
Mercury	18804-11-19 08:09 G	8589402.72	8589402.84	8589402.96	0.2683	0.0795
Mercury	18815-05-25 04:19 G	8593241.57	8593241.68	8593241.79	0.2649	0.1302
Mercury	18817-11-22 06:00 G	8594153.63	8594153.75	8594153.87	0.2683	0.1070
Mercury	18835-05-20 13:12 G	8600541.97	8600542.05	8600542.13	0.2648	0.2054
Mercury	18837-11-17 16:04 G	8601454.10	8601454.17	8601454.24	0.2683	0.2223
Mercury	18848-05-22 11:31 G	8605292.85	8605292.98	8605293.11	0.2649	0.0169
Mercury	18850-11-20 13:40 G	8606204.94	8606205.07	8606205.19	0.2683	0.0422
Mercury	18861-05-25 09:36 G	8610043.80	8610043.90	8610044.00	0.2649	0.1679
Mercury	18863-11-23 11:16 G	8610955.87	8610955.97	8610956.08	0.2682	0.1451
Venus	18877-05-08 06:43 G	8615870.64	8615870.78	8615870.93	0.2647	0.1053
Mercury	18881-05-20 18:43 G	8617344.18	8617344.28	8617344.38	0.2648	0.1655
Mercury	18883-11-18 21:21 G	8618256.30	8618256.39	8618256.48	0.2683	0.1856
Venus	18885-05-05 23:02 G	8618790.41	8618790.46	8618790.51	0.2647	0.2495
Mercury	18894-05-23 17:02 G	8622095.08	8622095.21	8622095.34	0.2649	0.0233
Mercury	18896-11-20 18:57 G	8623007.16	8623007.29	8623007.41	0.2683	0.0070
Mercury	18907-05-27 15:07 G	8626846.05	8626846.13	8626846.21	0.2649	0.2059
Mercury	18909-11-24 16:48 G	8627758.11	8627758.20	8627758.29	0.2682	0.1841
Mercury	18927-05-23 00:14 G	8634146.39	8634146.51	8634146.62	0.2649	0.1255
Mercury	18929-11-20 02:38 G	8635058.51	8635058.61	8635058.71	0.2683	0.1489
Mercury	18940-05-24 22:33 G	8638897.31	8638897.44	8638897.57	0.2649	0.0624
Mercury	18942-11-23 00:14 G	8639809.38	8639809.51	8639809.64	0.2683	0.0340

Mercury	18953-05-27 20:24 G	8643648.31	8643648.35	8643648.40	0.2649	0.2433
Mercury	18955-11-25 22:04 G	8644560.35	8644560.42	8644560.49	0.2682	0.2227
Mercury	18973-05-23 05:45 G	8650948.61	8650948.74	8650948.86	0.2649	0.0864
Mercury	18975-11-21 07:55 G	8651860.72	8651860.83	8651860.94	0.2683	0.1123
Mercury	18986-05-26 03:50 G	8655699.55	8655699.66	8655699.78	0.2649	0.1011
Mercury	18988-11-23 05:31 G	8656611.61	8656611.73	8656611.85	0.2683	0.0717
Venus	18998-11-07 09:21 G	8660247.73	8660247.89	8660248.05	0.2684	0.0066

20TH MILLENNIUM CE

This is a list of transits visible from Earth in the 20th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	19001-11-27 03:36 G		8661362.62	8661362.65	8661362.67	0.2682	0.2618	
Mercury	19006-05-22 12:28 G		8662999.97	8663000.02	8663000.08	0.2649	0.2392	
Mercury	19008-11-19 15:50 G		8663912.13	8663912.16	8663912.20	0.2683	0.2531	
Mercury	19019-05-25 11:16 G		8667750.84	8667750.97	8667751.10	0.2649	0.0470	
Mercury	19021-11-22 13:12 G		8668662.93	8668663.05	8668663.17	0.2683	0.0746	
Mercury	19032-05-27 09:21 G		8672501.78	8672501.89	8672502.00	0.2649	0.1388	
Mercury	19034-11-25 11:02 G		8673413.84	8673413.96	8673414.07	0.2682	0.1103	
Mercury	19052-05-22 18:00 G		8679802.17	8679802.25	8679802.34	0.2649	0.1986	
Mercury	19054-11-20 21:07 G		8680714.31	8680714.38	8680714.46	0.2683	0.2166	
Mercury	19065-05-25 16:33 G		8684553.06	8684553.19	8684553.32	0.2649	0.0093	
Mercury	19067-11-23 18:28 G		8685465.15	8685465.27	8685465.40	0.2683	0.0383	
Mercury	19078-05-28 14:52 G		8689304.02	8689304.12	8689304.21	0.2649	0.1769	

Mercury	19080-11-25 16:19 G	8690216.08	8690216.18	8690216.29	0.2682	0.1490
Mercury	19098-05-23 23:45 G	8696604.38	8696604.49	8696604.59	0.2649	0.1583
Mercury	19100-11-22 02:24 G	8697516.51	8697516.60	8697516.69	0.2683	0.1805
Mercury	19111-05-27 22:04 G	8701355.29	8701355.42	8701355.55	0.2649	0.0318
Mercury	19113-11-25 00:00 G	8702267.37	8702267.50	8702267.62	0.2683	0.0053
Venus	19120-05-11 09:07 G	8704626.74	8704626.88	8704627.03	0.2648	0.1079
Mercury	19124-05-29 20:09 G	8706106.27	8706106.34	8706106.42	0.2649	0.2145
Mercury	19126-11-27 21:36 G	8707018.31	8707018.40	8707018.49	0.2682	0.1877
Venus	19128-05-09 01:40 G	8707546.52	8707546.57	8707546.62	0.2647	0.2491
Mercury	19144-05-25 05:02 G	8713406.60	8713406.71	8713406.83	0.2649	0.1185
Mercury	19146-11-23 07:40 G	8714318.72	8714318.82	8714318.93	0.2683	0.1439
Mercury	19157-05-28 03:36 G	8718157.52	8718157.65	8718157.77	0.2649	0.0704
Mercury	19159-11-26 05:16 G	8719069.59	8719069.72	8719069.84	0.2683	0.0380
Mercury	19170-05-31 01:40 G	8722908.53	8722908.57	8722908.60	0.2649	0.2529
Mercury	19172-11-28 03:07 G	8723820.56	8723820.63	8723820.69	0.2682	0.2261
Mercury	19190-05-26 10:48 G	8730208.82	8730208.95	8730209.07	0.2649	0.0788
Mercury	19192-11-23 12:57 G	8731120.93	8731121.04	8731121.16	0.2683	0.1070
Mercury	19203-05-29 09:07 G	8734959.76	8734959.88	8734959.99	0.2649	0.1096
Mercury	19205-11-26 10:33 G	8735871.82	8735871.94	8735872.06	0.2682	0.0761
Mercury	19218-11-29 08:24 G	8740622.83	8740622.85	8740622.87	0.2682	0.2642
Mercury	19223-05-24 17:31 G	8742260.17	8742260.23	8742260.29	0.2649	0.2316
Mercury	19225-11-21 21:07 G	8743172.33	8743172.38	8743172.42	0.2683	0.2478
Mercury	19236-05-26 16:04 G	8747011.04	8747011.17	8747011.30	0.2649	0.0394
Mercury	19238-11-24 18:14 G	8747923.14	8747923.26	8747923.39	0.2683	0.0703
Venus	19241-11-09 08:52 G	8749003.71	8749003.87	8749004.03	0.2684	0.0331
Mercury	19249-05-29 14:24 G	8751762.00	8751762.10	8751762.21	0.2649	0.1476
Mercury	19251-11-27 15:50 G	8752674.05	8752674.16	8752674.28	0.2682	0.1145
Mercury	19269-05-24 23:02 G	8759062.37	8759062.46	8759062.55	0.2649	0.1912
Mercury	19271-11-23 02:24 G	8759974.52	8759974.60	8759974.67	0.2683	0.2120
Mercury	19282-05-27 21:36 G	8763813.27	8763813.40	8763813.53	0.2649	0.0042

Mercury	19284-11-24 23:45 G	8764725.36	8764725.49	8764725.61	0.2683	0.0339
Mercury	19295-05-30 19:55 G	8768564.24	8768564.33	8768564.42	0.2649	0.1860
Mercury	19297-11-27 21:21 G	8769476.28	8769476.39	8769476.49	0.2682	0.1522
Mercury	19315-05-27 04:33 G	8775864.58	8775864.69	8775864.80	0.2649	0.1511
Mercury	19317-11-24 07:40 G	8776776.72	8776776.82	8776776.91	0.2683	0.1750
Mercury	19328-05-29 03:07 G	8780615.50	8780615.63	8780615.76	0.2649	0.0397
Mercury	19330-11-27 05:02 G	8781527.58	8781527.71	8781527.83	0.2683	0.0070
Mercury	19341-06-01 01:26 G	8785366.49	8785366.56	8785366.62	0.2649	0.2245
Mercury	19343-11-30 02:38 G	8786278.52	8786278.61	8786278.70	0.2682	0.1900
Mercury	19361-05-27 10:04 G	8792666.80	8792666.92	8792667.04	0.2649	0.1113
Venus	19363-05-13 11:31 G	8793382.84	8793382.98	8793383.13	0.2648	0.1084
Mercury	19363-11-25 12:57 G	8793578.93	8793579.04	8793579.15	0.2683	0.1381
Venus	19371-05-11 04:04 G	8796302.62	8796302.67	8796302.72	0.2648	0.2468
Mercury	19374-05-30 08:38 G	8797417.73	8797417.86	8797417.98	0.2649	0.0789
Mercury	19376-11-27 10:19 G	8798329.81	8798329.93	8798330.06	0.2682	0.0428
Mercury	19387-06-02 06:43 G	8802168.77	8802168.78	8802168.80	0.2649	0.2621
Mercury	19389-11-30 07:55 G	8803080.77	8803080.83	8803080.90	0.2682	0.2284
Mercury	19407-05-29 15:36 G	8809469.02	8809469.15	8809469.28	0.2649	0.0713
Mercury	19409-11-26 18:14 G	8810381.14	8810381.26	8810381.37	0.2683	0.1015
Mercury	19420-05-31 13:55 G	8814219.97	8814220.08	8814220.20	0.2649	0.1175
Mercury	19422-11-29 15:36 G	8815132.03	8815132.15	8815132.27	0.2682	0.0803
Mercury	19435-12-02 13:26 G	8819883.06	8819883.06	8819883.06	0.2682	0.2679
Mercury	19440-05-26 22:19 G	8821520.36	8821520.43	8821520.50	0.2649	0.2250
Mercury	19442-11-25 02:09 G	8822432.54	8822432.59	8822432.64	0.2683	0.2420
Mercury	19453-05-29 21:07 G	8826271.25	8826271.38	8826271.51	0.2649	0.0310
Mercury	19455-11-27 23:31 G	8827183.36	8827183.48	8827183.60	0.2682	0.0651
Mercury	19466-06-01 19:26 G	8831022.21	8831022.31	8831022.42	0.2649	0.1568
Mercury	19468-11-29 20:52 G	8831934.26	8831934.37	8831934.49	0.2682	0.1180
Venus	19484-11-11 08:38 G	8837759.70	8837759.86	8837760.01	0.2683	0.0607
Mercury	19486-05-28 03:50 G	8838322.57	8838322.66	8838322.76	0.2649	0.1845

Mercury	19488-11-25 07:26 G	8839234.74	8839234.81	8839234.89	0.2683	0.2059
Mercury	19499-05-31 02:38 G	8843073.48	8843073.61	8843073.74	0.2649	0.0089
Mercury	19501-11-29 04:48 G	8843985.57	8843985.70	8843985.82	0.2682	0.0283
Mercury	19512-06-03 00:57 G	8847824.46	8847824.54	8847824.63	0.2650	0.1953
Mercury	19514-12-02 02:09 G	8848736.49	8848736.59	8848736.70	0.2682	0.1555
Mercury	19532-05-29 09:21 G	8855124.78	8855124.89	8855125.00	0.2649	0.1443
Mercury	19534-11-27 12:43 G	8856036.94	8856037.03	8856037.13	0.2683	0.1697
Mercury	19545-06-01 08:09 G	8859875.71	8859875.84	8859875.97	0.2649	0.0481
Mercury	19547-11-30 10:04 G	8860787.79	8860787.92	8860788.05	0.2682	0.0093
Mercury	19558-06-04 06:28 G	8864626.71	8864626.77	8864626.83	0.2649	0.2336
Mercury	19560-12-02 07:40 G	8865538.73	8865538.82	8865538.90	0.2682	0.1935
Mercury	19578-05-30 14:52 G	8871927.00	8871927.12	8871927.24	0.2649	0.1039
Mercury	19580-11-27 18:00 G	8872839.14	8872839.25	8872839.36	0.2682	0.1335
Mercury	19591-06-02 13:40 G	8876677.94	8876678.07	8876678.19	0.2649	0.0872
Mercury	19593-11-30 15:21 G	8877590.01	8877590.14	8877590.26	0.2682	0.0462
Venus	19606-05-15 14:09 G	8882138.95	8882139.09	8882139.24	0.2648	0.1104
Mercury	19606-12-03 12:57 G	8882340.98	8882341.04	8882341.10	0.2682	0.2317
Mercury	19611-05-28 21:36 G	8883978.38	8883978.40	8883978.42	0.2649	0.2600
Venus	19614-05-13 06:28 G	8885058.71	8885058.77	8885058.82	0.2648	0.2474
Mercury	19624-05-30 20:38 G	8888729.23	8888729.36	8888729.48	0.2649	0.0640
Mercury	19626-11-28 23:16 G	8889641.36	8889641.47	8889641.59	0.2682	0.0970
Mercury	19637-06-02 19:12 G	8893480.18	8893480.30	8893480.41	0.2649	0.1268
Mercury	19639-12-01 20:38 G	8894392.24	8894392.36	8894392.48	0.2682	0.0834
Mercury	19657-05-29 03:07 G	8900780.56	8900780.63	8900780.70	0.2649	0.2192
Mercury	19659-11-27 07:26 G	8901692.76	8901692.81	8901692.87	0.2682	0.2359
Mercury	19670-06-01 01:55 G	8905531.45	8905531.58	8905531.72	0.2649	0.0250
Mercury	19672-11-29 04:33 G	8906443.57	8906443.69	8906443.81	0.2682	0.0602
Mercury	19683-06-04 00:28 G	8910282.42	8910282.52	8910282.63	0.2650	0.1653
Mercury	19685-12-02 01:55 G	8911194.47	8911194.58	8911194.69	0.2682	0.1213
Mercury	19703-05-31 08:38 G	8917582.77	8917582.86	8917582.96	0.2649	0.1783

Mercury	19705-11-28 12:43 G	8918494.95	8918495.03	8918495.11	0.2682	0.2000
Mercury	19716-06-02 07:40 G	8922333.68	8922333.82	8922333.95	0.2649	0.0183
Mercury	19718-12-01 09:50 G	8923245.79	8923245.91	8923246.04	0.2682	0.0236
Venus	19727-11-14 07:55 G	8926515.68	8926515.83	8926515.98	0.2683	0.0919
Mercury	19729-06-05 06:00 G	8927084.67	8927084.75	8927084.83	0.2650	0.2035
Mercury	19731-12-04 07:26 G	8927996.70	8927996.81	8927996.91	0.2682	0.1596
Mercury	19749-05-31 14:24 G	8934384.98	8934385.10	8934385.21	0.2649	0.1372
Mercury	19751-11-29 18:00 G	8935297.15	8935297.25	8935297.35	0.2682	0.1644
Mercury	19762-06-03 12:57 G	8939135.92	8939136.04	8939136.17	0.2649	0.0562
Mercury	19764-12-01 15:07 G	8940048.01	8940048.13	8940048.26	0.2682	0.0136
Mercury	19775-06-06 11:31 G	8943886.93	8943886.98	8943887.03	0.2650	0.2416
Mercury	19777-12-04 12:43 G	8944798.94	8944799.03	8944799.11	0.2682	0.1971
Mercury	19795-06-01 19:55 G	8951187.21	8951187.33	8951187.45	0.2649	0.0961
Mercury	19797-11-29 23:16 G	8952099.36	8952099.47	8952099.58	0.2682	0.1284
Mercury	19808-06-04 18:28 G	8955938.15	8955938.27	8955938.40	0.2650	0.0960
Mercury	19810-12-03 20:24 G	8956850.23	8956850.35	8956850.48	0.2682	0.0506
Mercury	19823-12-06 18:00 G	8961601.19	8961601.25	8961601.31	0.2682	0.2347
Mercury	19828-05-31 02:24 G	8963238.56	8963238.60	8963238.63	0.2649	0.2537
Mercury	19830-11-29 07:26 G	8964150.80	8964150.81	8964150.82	0.2682	0.2660
Mercury	19841-06-03 01:26 G	8967989.43	8967989.56	8967989.69	0.2649	0.0565
Mercury	19843-12-02 04:33 G	8968901.57	8968901.69	8968901.80	0.2682	0.0927
Venus	19849-05-17 16:19 G	8970895.03	8970895.18	8970895.32	0.2649	0.1082
Mercury	19854-06-06 00:00 G	8972740.39	8972740.50	8972740.61	0.2650	0.1346
Mercury	19856-12-04 01:40 G	8973652.45	8973652.57	8973652.69	0.2682	0.0876
Venus	19857-05-15 08:38 G	8973814.81	8973814.86	8973814.91	0.2649	0.2485
Mercury	19874-06-01 07:55 G	8980040.75	8980040.83	8980040.91	0.2649	0.2127
Mercury	19876-11-29 12:43 G	8980952.97	8980953.03	8980953.09	0.2682	0.2307
Mercury	19887-06-04 06:57 G	8984791.66	8984791.79	8984791.92	0.2649	0.0162
Mercury	19889-12-02 09:50 G	8985703.78	8985703.91	8985704.03	0.2682	0.0564
Mercury	19900-06-07 05:31 G	8989542.63	8989542.73	8989542.83	0.2650	0.1731

Mercury	19902-12-06 06:57 G	8990454.68	8990454.79	8990454.90	0.2682	0.1249
Mercury	19920-06-02 13:26 G	8996842.96	8996843.06	8996843.16	0.2649	0.1716
Mercury	19922-12-01 18:00 G	8997755.17	8997755.25	8997755.33	0.2682	0.1949
Mercury	19933-06-05 12:28 G	9001593.89	9001594.02	9001594.15	0.2649	0.0240
Mercury	19935-12-04 15:07 G	9002506.00	9002506.13	9002506.25	0.2682	0.0213
Mercury	19946-06-08 11:02 G	9006344.88	9006344.96	9006345.03	0.2650	0.2119
Mercury	19948-12-06 12:14 G	9007256.91	9007257.01	9007257.11	0.2682	0.1623
Mercury	19966-06-03 19:12 G	9013645.18	9013645.30	9013645.41	0.2650	0.1308
Mercury	19968-12-01 23:16 G	9014557.37	9014557.47	9014557.57	0.2682	0.1590
Venus	19970-11-16 07:40 G	9015271.68	9015271.82	9015271.97	0.2683	0.1200
Mercury	19979-06-06 18:00 G	9018396.12	9018396.25	9018396.38	0.2650	0.0635
Mercury	19981-12-04 20:24 G	9019308.22	9019308.35	9019308.47	0.2682	0.0188
Mercury	19992-06-08 16:33 G	9023147.15	9023147.19	9023147.23	0.2650	0.2507
Mercury	19994-12-07 17:45 G	9024059.15	9024059.24	9024059.32	0.2682	0.2000

21ST MILLENNIUM CE

This is a list of transits visible from Earth in the 21st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	20012-06-04 00:43 G		9030447.40	9030447.53	9030447.65	0.2650	0.0906	
Mercury	20014-12-03 04:33 G		9031359.58	9031359.69	9031359.79	0.2682	0.1236	
Mercury	20025-06-06 23:31 G		9035198.36	9035198.48	9035198.60	0.2650	0.1029	
Mercury	20027-12-06 01:40 G		9036110.44	9036110.57	9036110.69	0.2682	0.0552	
Mercury	20040-12-07 23:02 G		9040861.40	9040861.46	9040861.51	0.2682	0.2378	

Mercury	20045-06-02 07:12 G	9042498.75	9042498.80	9042498.84	0.2649	0.2482
Mercury	20047-12-01 12:43 G	9043411.01	9043411.03	9043411.06	0.2682	0.2603
Mercury	20058-06-05 06:14 G	9047249.63	9047249.76	9047249.89	0.2650	0.0497
Mercury	20060-12-03 09:36 G	9048161.79	9048161.90	9048162.02	0.2682	0.0874
Mercury	20071-06-08 05:02 G	9052000.60	9052000.71	9052000.82	0.2650	0.1423
Mercury	20073-12-06 06:57 G	9052912.67	9052912.79	9052912.90	0.2682	0.0918
Mercury	20091-06-03 12:43 G	9059300.95	9059301.03	9059301.11	0.2649	0.2061
Venus	20092-05-18 18:43 G	9059651.14	9059651.28	9059651.43	0.2649	0.1094
Mercury	20093-12-01 18:00 G	9060213.18	9060213.25	9060213.31	0.2682	0.2249
Venus	20100-05-17 11:02 G	9062570.91	9062570.96	9062571.01	0.2649	0.2492
Mercury	20104-06-06 11:45 G	9064051.86	9064051.99	9064052.12	0.2650	0.0096
Mercury	20106-12-05 14:52 G	9064964.00	9064964.12	9064964.24	0.2682	0.0514
Mercury	20117-06-09 10:33 G	9068802.84	9068802.94	9068803.03	0.2650	0.1816
Mercury	20119-12-08 12:14 G	9069714.90	9069715.01	9069715.11	0.2682	0.1289
Mercury	20137-06-04 18:14 G	9076103.16	9076103.26	9076103.36	0.2650	0.1654
Mercury	20139-12-03 23:16 G	9077015.38	9077015.47	9077015.55	0.2682	0.1899
Mercury	20150-06-07 17:16 G	9080854.09	9080854.22	9080854.35	0.2650	0.0314
Mercury	20152-12-05 20:09 G	9081766.22	9081766.34	9081766.47	0.2682	0.0150
Mercury	20163-06-10 16:04 G	9085605.10	9085605.17	9085605.24	0.2650	0.2208
Mercury	20165-12-08 17:31 G	9086517.13	9086517.23	9086517.32	0.2681	0.1657
Mercury	20183-06-05 23:45 G	9092905.38	9092905.49	9092905.61	0.2650	0.1244
Mercury	20185-12-04 04:19 G	9093817.58	9093817.68	9093817.79	0.2682	0.1545
Mercury	20196-06-07 22:48 G	9097656.32	9097656.45	9097656.58	0.2650	0.0708
Mercury	20198-12-07 01:26 G	9098568.44	9098568.56	9098568.68	0.2682	0.0215
Venus	20205-11-20 17:16 G	9101108.17	9101108.22	9101108.28	0.2682	0.2494
Mercury	20209-06-11 21:36 G	9102407.37	9102407.40	9102407.42	0.2650	0.2597
Mercury	20211-12-10 22:48 G	9103319.37	9103319.45	9103319.53	0.2681	0.2031
Venus	20213-11-18 07:26 G	9104027.67	9104027.81	9104027.94	0.2682	0.1489
Mercury	20229-06-07 05:16 G	9109707.60	9109707.72	9109707.85	0.2650	0.0840
Mercury	20231-12-06 09:36 G	9110619.79	9110619.90	9110620.01	0.2682	0.1183

Mercury	20242-06-10 04:19 G	9114458.56	9114458.68	9114458.80	0.2650	0.1111
Mercury	20244-12-08 06:43 G	9115370.66	9115370.78	9115370.90	0.2682	0.0584
Mercury	20257-12-11 04:04 G	9120121.61	9120121.67	9120121.72	0.2681	0.2402
Mercury	20262-06-05 11:45 G	9121758.94	9121758.99	9121759.04	0.2650	0.2424
Mercury	20264-12-03 18:00 G	9122671.22	9122671.25	9122671.29	0.2682	0.2542
Mercury	20275-06-08 11:02 G	9126509.83	9126509.96	9126510.09	0.2650	0.0434
Mercury	20277-12-06 14:52 G	9127422.01	9127422.12	9127422.24	0.2682	0.0822
Mercury	20288-06-10 09:50 G	9131260.80	9131260.91	9131261.02	0.2650	0.1501
Mercury	20290-12-09 12:00 G	9132172.88	9132173.00	9132173.12	0.2682	0.0953
Mercury	20308-06-06 17:16 G	9138561.14	9138561.22	9138561.31	0.2650	0.2011
Mercury	20310-12-05 23:16 G	9139473.40	9139473.47	9139473.54	0.2682	0.2193
Mercury	20321-06-09 16:33 G	9143312.06	9143312.19	9143312.32	0.2650	0.0019
Mercury	20323-12-08 20:09 G	9144224.22	9144224.34	9144224.46	0.2682	0.0460
Mercury	20334-06-12 15:21 G	9148063.05	9148063.14	9148063.23	0.2650	0.1897
Venus	20335-05-22 20:38 G	9148407.22	9148407.36	9148407.51	0.2649	0.1050
Mercury	20336-12-10 17:16 G	9148975.11	9148975.22	9148975.33	0.2681	0.1324
Venus	20343-05-20 12:57 G	9151327.00	9151327.04	9151327.08	0.2650	0.2537
Mercury	20354-06-07 23:02 G	9155363.35	9155363.46	9155363.56	0.2650	0.1590
Mercury	20356-12-06 04:33 G	9156275.60	9156275.69	9156275.78	0.2682	0.1837
Mercury	20367-06-10 22:04 G	9160114.29	9160114.42	9160114.55	0.2650	0.0381
Mercury	20369-12-09 01:26 G	9161026.43	9161026.56	9161026.68	0.2681	0.0117
Mercury	20380-06-12 20:52 G	9164865.31	9164865.37	9164865.43	0.2650	0.2289
Mercury	20382-12-11 22:33 G	9165777.34	9165777.44	9165777.53	0.2681	0.1693
Mercury	20400-06-08 04:33 G	9172165.57	9172165.69	9172165.81	0.2650	0.1180
Mercury	20402-12-07 09:50 G	9173077.80	9173077.91	9173078.01	0.2682	0.1488
Mercury	20413-06-11 03:36 G	9176916.53	9176916.65	9176916.78	0.2650	0.0795
Mercury	20415-12-10 06:43 G	9177828.65	9177828.78	9177828.90	0.2681	0.0272
Mercury	20428-12-12 03:50 G	9182579.58	9182579.66	9182579.74	0.2681	0.2063
Mercury	20446-06-09 10:04 G	9188967.80	9188967.92	9188968.05	0.2650	0.0768
Venus	20448-11-21 16:48 G	9189864.11	9189864.20	9189864.29	0.2682	0.2189

Mercury	20448-12-07 14:52 G	9189880.01	9189880.12	9189880.23	0.2681	0.1130
Venus	20456-11-19 07:12 G	9192783.68	9192783.80	9192783.92	0.2682	0.1774
Mercury	20459-06-12 09:07 G	9193718.77	9193718.88	9193719.00	0.2650	0.1187
Mercury	20461-12-10 12:00 G	9194630.87	9194631.00	9194631.12	0.2681	0.0633
Mercury	20474-12-13 09:07 G	9199381.83	9199381.88	9199381.93	0.2681	0.2439
Mercury	20479-06-07 16:19 G	9201019.12	9201019.18	9201019.24	0.2650	0.2369
Mercury	20481-12-05 23:31 G	9201931.43	9201931.48	9201931.52	0.2682	0.2490
Mercury	20492-06-09 15:50 G	9205770.03	9205770.16	9205770.29	0.2650	0.0357
Mercury	20494-12-08 20:09 G	9206682.22	9206682.34	9206682.46	0.2681	0.0777
Mercury	20505-06-13 14:38 G	9210521.01	9210521.11	9210521.22	0.2650	0.1591
Mercury	20507-12-12 17:02 G	9211433.10	9211433.21	9211433.33	0.2681	0.0998
Mercury	20525-06-08 22:04 G	9217821.33	9217821.42	9217821.51	0.2650	0.1947
Mercury	20527-12-08 04:33 G	9218733.62	9218733.69	9218733.77	0.2682	0.2132
Mercury	20538-06-11 21:21 G	9222572.26	9222572.39	9222572.52	0.2650	0.0055
Mercury	20540-12-10 01:26 G	9223484.44	9223484.56	9223484.68	0.2681	0.0420
Mercury	20551-06-14 20:09 G	9227323.26	9227323.34	9227323.43	0.2650	0.1982
Mercury	20553-12-12 22:19 G	9228235.33	9228235.43	9228235.54	0.2681	0.1357
Mercury	20571-06-10 03:36 G	9234623.54	9234623.65	9234623.76	0.2650	0.1537
Mercury	20573-12-08 09:50 G	9235535.82	9235535.91	9235536.00	0.2681	0.1781
Venus	20578-05-23 23:02 G	9237163.32	9237163.46	9237163.61	0.2650	0.1059
Mercury	20584-06-12 02:52 G	9239374.49	9239374.62	9239374.75	0.2650	0.0458
Venus	20586-05-21 15:21 G	9240083.09	9240083.14	9240083.18	0.2650	0.2533
Mercury	20586-12-11 06:43 G	9240286.65	9240286.78	9240286.90	0.2681	0.0067
Mercury	20597-06-15 01:55 G	9244125.52	9244125.58	9244125.63	0.2650	0.2376
Mercury	20599-12-14 03:50 G	9245037.56	9245037.66	9245037.75	0.2681	0.1732
Mercury	20617-06-11 09:21 G	9251425.77	9251425.89	9251426.01	0.2650	0.1115
Mercury	20619-12-10 15:07 G	9252338.02	9252338.13	9252338.23	0.2681	0.1429
Mercury	20630-06-14 08:24 G	9256176.73	9256176.85	9256176.98	0.2650	0.0857
Mercury	20632-12-12 12:00 G	9257088.87	9257089.00	9257089.12	0.2681	0.0322
Mercury	20645-12-15 08:52 G	9261839.80	9261839.87	9261839.95	0.2681	0.2105

Mercury	20663-06-12 14:52 G	9268227.99	9268228.12	9268228.25	0.2650	0.0699
Mercury	20665-12-10 20:09 G	9269140.23	9269140.34	9269140.46	0.2681	0.1080
Mercury	20676-06-14 13:55 G	9272978.97	9272979.08	9272979.20	0.2650	0.1268
Mercury	20678-12-13 17:02 G	9273891.09	9273891.21	9273891.33	0.2681	0.0679
Venus	20691-11-24 16:48 G	9278620.09	9278620.20	9278620.31	0.2681	0.1944
Mercury	20691-12-16 14:09 G	9278642.05	9278642.09	9278642.14	0.2681	0.2474
Mercury	20696-06-09 21:07 G	9280279.31	9280279.38	9280279.44	0.2650	0.2308
Mercury	20698-12-09 04:48 G	9281191.65	9281191.70	9281191.75	0.2681	0.2422
Venus	20699-11-22 06:57 G	9281539.69	9281539.79	9281539.90	0.2681	0.2024
Mercury	20709-06-13 20:24 G	9285030.22	9285030.35	9285030.49	0.2650	0.0295
Mercury	20711-12-13 01:26 G	9285942.44	9285942.56	9285942.68	0.2681	0.0721
Mercury	20722-06-16 19:40 G	9289781.21	9289781.32	9289781.42	0.2651	0.1664
Mercury	20724-12-14 22:19 G	9290693.32	9290693.43	9290693.55	0.2681	0.1033
Mercury	20742-06-12 02:38 G	9297081.52	9297081.61	9297081.70	0.2650	0.1891
Mercury	20744-12-10 10:04 G	9297993.84	9297993.92	9297993.99	0.2681	0.2077
Mercury	20755-06-15 02:09 G	9301832.45	9301832.59	9301832.72	0.2650	0.0137
Mercury	20757-12-13 06:43 G	9302744.66	9302744.78	9302744.90	0.2681	0.0362
Mercury	20768-06-17 01:12 G	9306583.47	9306583.55	9306583.63	0.2651	0.2065
Mercury	20770-12-16 03:36 G	9307495.55	9307495.65	9307495.76	0.2681	0.1403
Mercury	20788-06-12 08:24 G	9313883.74	9313883.85	9313883.96	0.2650	0.1465
Mercury	20790-12-11 15:07 G	9314796.04	9314796.13	9314796.23	0.2681	0.1729
Mercury	20801-06-15 07:40 G	9318634.69	9318634.82	9318634.95	0.2650	0.0530
Mercury	20803-12-14 12:00 G	9319546.87	9319547.00	9319547.12	0.2681	0.0071
Mercury	20814-06-18 06:43 G	9323385.73	9323385.78	9323385.82	0.2651	0.2454
Mercury	20816-12-16 08:52 G	9324297.78	9324297.87	9324297.96	0.2681	0.1765
Venus	20821-05-26 01:12 G	9325919.40	9325919.55	9325919.69	0.2650	0.1021
Venus	20829-05-23 17:16 G	9328839.19	9328839.22	9328839.25	0.2651	0.2578
Mercury	20834-06-13 13:55 G	9330685.96	9330686.08	9330686.20	0.2650	0.1051
Mercury	20836-12-11 20:24 G	9331598.25	9331598.35	9331598.45	0.2681	0.1376
Mercury	20847-06-16 13:12 G	9335436.93	9335437.05	9335437.18	0.2651	0.0940

Mercury	20849-12-14 17:02 G	9336349.09	9336349.21	9336349.34	0.2681	0.0360
Mercury	20862-12-17 14:09 G	9341100.01	9341100.09	9341100.16	0.2681	0.2133
Mercury	20880-06-13 19:26 G	9347488.18	9347488.31	9347488.44	0.2651	0.0642
Mercury	20882-12-13 01:40 G	9348400.46	9348400.57	9348400.68	0.2681	0.1018
Mercury	20893-06-16 18:43 G	9352239.17	9352239.28	9352239.40	0.2651	0.1340
Mercury	20895-12-15 22:19 G	9353151.31	9353151.43	9353151.55	0.2681	0.0715
Mercury	20908-12-18 19:26 G	9357902.27	9357902.31	9357902.35	0.2681	0.2501
Mercury	20913-06-13 01:40 G	9359539.50	9359539.57	9359539.63	0.2651	0.2259
Mercury	20915-12-12 10:19 G	9360451.87	9360451.93	9360451.98	0.2681	0.2360
Mercury	20926-06-16 01:12 G	9364290.41	9364290.55	9364290.68	0.2651	0.0232
Mercury	20928-12-14 06:43 G	9365202.67	9365202.78	9365202.90	0.2681	0.0671
Venus	20934-11-26 16:33 G	9367376.07	9367376.19	9367376.32	0.2681	0.1649
Mercury	20939-06-19 00:28 G	9369041.42	9369041.52	9369041.62	0.2651	0.1743
Mercury	20941-12-17 03:36 G	9369953.54	9369953.65	9369953.76	0.2681	0.1083
Venus	20942-11-24 06:57 G	9370295.71	9370295.79	9370295.87	0.2681	0.2291
Mercury	20959-06-14 07:12 G	9376341.71	9376341.80	9376341.90	0.2651	0.1830
Mercury	20961-12-12 15:21 G	9377254.06	9377254.14	9377254.22	0.2681	0.2016
Mercury	20972-06-16 06:43 G	9381092.65	9381092.78	9381092.92	0.2651	0.0198
Mercury	20974-12-15 12:00 G	9382004.88	9382005.00	9382005.12	0.2681	0.0312
Mercury	20985-06-19 06:00 G	9385843.67	9385843.75	9385843.82	0.2651	0.2138
Mercury	20987-12-18 08:52 G	9386755.77	9386755.87	9386755.97	0.2681	0.1443

22ND MILLENNIUM CE

This is a list of transits visible from Earth in the 22nd millennium CE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
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TRANSIT

TIME

Mercury	21005-06-15 12:57 G	9393143.92	9393144.04	9393144.15	0.2651	0.1407
Mercury	21007-12-14 20:38 G	9394056.26	9394056.36	9394056.45	0.2681	0.1667
Mercury	21018-06-18 12:28 G	9397894.89	9397895.02	9397895.15	0.2651	0.0606
Mercury	21020-12-16 17:16 G	9398807.09	9398807.22	9398807.34	0.2681	0.0073
Mercury	21031-06-21 11:31 G	9402645.95	9402645.98	9402646.01	0.2651	0.2544
Mercury	21033-12-19 14:09 G	9403558.00	9403558.09	9403558.18	0.2680	0.1808
Mercury	21051-06-16 18:28 G	9409946.15	9409946.27	9409946.40	0.2651	0.0992
Mercury	21053-12-15 01:40 G	9410858.47	9410858.57	9410858.68	0.2681	0.1321
Venus	21064-05-28 03:21 G	9414675.50	9414675.64	9414675.79	0.2651	0.1019
Mercury	21064-06-18 18:00 G	9414697.13	9414697.25	9414697.37	0.2651	0.1013
Mercury	21066-12-17 22:19 G	9415609.31	9415609.43	9415609.56	0.2681	0.0410
Venus	21072-05-25 19:40 G	9417595.29	9417595.32	9417595.35	0.2651	0.2585
Mercury	21079-12-20 19:26 G	9420360.24	9420360.31	9420360.38	0.2680	0.2172
Mercury	21084-06-14 00:28 G	9421997.51	9421997.52	9421997.53	0.2651	0.2632
Mercury	21086-12-13 10:33 G	9422909.92	9422909.94	9422909.95	0.2681	0.2645
Mercury	21097-06-17 00:14 G	9426748.38	9426748.51	9426748.64	0.2651	0.0574
Mercury	21099-12-16 06:57 G	9427660.68	9427660.79	9427660.90	0.2681	0.0969
Mercury	21110-06-20 23:31 G	9431499.37	9431499.48	9431499.60	0.2651	0.1419
Mercury	21112-12-19 03:36 G	9432411.53	9432411.65	9432411.77	0.2680	0.0763
Mercury	21125-12-22 00:43 G	9437162.49	9437162.53	9437162.56	0.2680	0.2542
Mercury	21130-06-16 06:14 G	9438799.68	9438799.76	9438799.83	0.2651	0.2202
Mercury	21132-12-14 15:36 G	9439712.09	9439712.15	9439712.21	0.2681	0.2301
Mercury	21143-06-19 05:45 G	9443550.61	9443550.74	9443550.88	0.2651	0.0175
Mercury	21145-12-17 12:14 G	9444462.89	9444463.01	9444463.13	0.2681	0.0622
Mercury	21156-06-21 05:16 G	9448301.62	9448301.72	9448301.81	0.2651	0.1822
Mercury	21158-12-20 08:52 G	9449213.76	9449213.87	9449213.98	0.2680	0.1120
Mercury	21176-06-16 11:45 G	9455601.89	9455601.99	9455602.09	0.2651	0.1779
Venus	21177-11-28 16:48 G	9456132.06	9456132.20	9456132.33	0.2680	0.1424

Mercury	21178-12-15 20:52 G	9456514.29	9456514.37	9456514.45	0.2681	0.1954
Venus	21185-11-26 07:12 G	9459051.75	9459051.80	9459051.85	0.2680	0.2522
Mercury	21189-06-19 11:31 G	9460352.85	9460352.98	9460353.11	0.2651	0.0261
Mercury	21191-12-18 17:16 G	9461265.10	9461265.22	9461265.35	0.2681	0.0269
Mercury	21202-06-22 10:48 G	9465103.88	9465103.95	9465104.02	0.2651	0.2226
Mercury	21204-12-20 14:09 G	9466015.99	9466016.09	9466016.19	0.2680	0.1482
Mercury	21222-06-17 17:31 G	9472404.11	9472404.23	9472404.35	0.2651	0.1352
Mercury	21224-12-16 01:55 G	9473316.49	9473316.58	9473316.68	0.2680	0.1608
Mercury	21235-06-20 17:02 G	9477155.08	9477155.21	9477155.34	0.2651	0.0671
Mercury	21237-12-18 22:33 G	9478067.32	9478067.44	9478067.56	0.2680	0.0097
Mercury	21248-06-22 16:19 G	9481906.16	9481906.18	9481906.20	0.2651	0.2621
Mercury	21250-12-21 19:26 G	9482818.22	9482818.31	9482818.40	0.2680	0.1848
Mercury	21268-06-17 23:02 G	9489206.34	9489206.46	9489206.59	0.2651	0.0934
Mercury	21270-12-17 07:12 G	9490118.69	9490118.80	9490118.91	0.2680	0.1260
Mercury	21281-06-20 22:48 G	9493957.32	9493957.45	9493957.57	0.2651	0.1084
Mercury	21283-12-20 03:50 G	9494869.54	9494869.66	9494869.78	0.2680	0.0454
Mercury	21296-12-22 00:43 G	9499620.46	9499620.53	9499620.59	0.2680	0.2215
Mercury	21301-06-17 05:02 G	9501257.68	9501257.71	9501257.74	0.2651	0.2575
Mercury	21303-12-16 16:04 G	9502170.14	9502170.17	9502170.19	0.2680	0.2582
Venus	21307-05-31 05:31 G	9503431.58	9503431.73	9503431.87	0.2651	0.0982
Mercury	21314-06-20 04:48 G	9506008.57	9506008.70	9506008.84	0.2651	0.0506
Venus	21315-05-28 21:21 G	9506351.38	9506351.39	9506351.41	0.2652	0.2633
Mercury	21316-12-18 12:28 G	9506920.90	9506921.02	9506921.13	0.2680	0.0917
Mercury	21327-06-23 04:19 G	9510759.57	9510759.68	9510759.79	0.2651	0.1492
Mercury	21329-12-21 08:52 G	9511671.76	9511671.87	9511671.99	0.2680	0.0814
Mercury	21342-12-24 05:45 G	9516422.71	9516422.74	9516422.77	0.2680	0.2577
Mercury	21347-06-18 10:33 G	9518059.87	9518059.94	9518060.02	0.2651	0.2152
Mercury	21349-12-16 21:07 G	9518972.32	9518972.38	9518972.44	0.2680	0.2242
Mercury	21360-06-20 10:33 G	9522810.80	9522810.94	9522811.07	0.2651	0.0100
Mercury	21362-12-19 17:31 G	9523723.11	9523723.23	9523723.35	0.2680	0.0562

Mercury	21373-06-23 09:50 G	9527561.82	9527561.91	9527562.01	0.2651	0.1904
Mercury	21375-12-22 14:09 G	9528473.98	9528474.09	9528474.20	0.2680	0.1165
Mercury	21393-06-18 16:19 G	9534862.08	9534862.18	9534862.29	0.2651	0.1720
Mercury	21395-12-18 02:09 G	9535774.51	9535774.59	9535774.68	0.2680	0.1898
Mercury	21406-06-22 16:04 G	9539613.04	9539613.17	9539613.30	0.2651	0.0327
Mercury	21408-12-20 22:48 G	9540525.33	9540525.45	9540525.57	0.2680	0.0219
Mercury	21419-06-25 15:36 G	9544364.08	9544364.15	9544364.21	0.2651	0.2304
Venus	21420-11-30 16:33 G	9544888.05	9544888.19	9544888.34	0.2680	0.1147
Mercury	21421-12-23 19:26 G	9545276.21	9545276.31	9545276.41	0.2680	0.1523
Mercury	21439-06-20 22:04 G	9551664.30	9551664.42	9551664.54	0.2651	0.1298
Mercury	21441-12-19 07:26 G	9552576.71	9552576.81	9552576.91	0.2680	0.1551
Mercury	21452-06-22 21:50 G	9556415.28	9556415.41	9556415.54	0.2651	0.0746
Mercury	21454-12-22 03:50 G	9557327.54	9557327.66	9557327.79	0.2680	0.0163
Mercury	21467-12-25 00:43 G	9562078.44	9562078.53	9562078.61	0.2680	0.1885
Mercury	21485-06-21 03:36 G	9568466.53	9568466.65	9568466.78	0.2651	0.0875
Mercury	21487-12-20 12:43 G	9569378.92	9569379.03	9569379.14	0.2680	0.1203
Mercury	21498-06-24 03:21 G	9573217.52	9573217.64	9573217.76	0.2651	0.1153
Mercury	21500-12-23 09:07 G	9574129.76	9574129.88	9574130.00	0.2680	0.0497
Mercury	21513-12-26 05:45 G	9578880.68	9578880.74	9578880.81	0.2680	0.2245
Mercury	21518-06-20 09:21 G	9580517.85	9580517.89	9580517.93	0.2651	0.2537
Mercury	21520-12-18 21:21 G	9581430.36	9581430.39	9581430.43	0.2680	0.2520
Mercury	21531-06-23 09:21 G	9585268.76	9585268.89	9585269.02	0.2652	0.0449
Mercury	21533-12-21 17:45 G	9586181.13	9586181.24	9586181.36	0.2680	0.0857
Mercury	21544-06-25 09:07 G	9590019.77	9590019.88	9590019.98	0.2652	0.1566
Mercury	21546-12-24 14:24 G	9590931.98	9590932.10	9590932.21	0.2680	0.0855
Venus	21550-06-02 07:26 G	9592187.66	9592187.81	9592187.96	0.2652	0.0940
Mercury	21559-12-27 11:02 G	9595682.94	9595682.96	9595682.99	0.2680	0.2609
Mercury	21564-06-20 15:07 G	9597320.05	9597320.13	9597320.21	0.2652	0.2099
Mercury	21566-12-20 02:38 G	9598232.54	9598232.61	9598232.68	0.2680	0.2174
Mercury	21577-06-23 15:07 G	9602070.99	9602071.13	9602071.26	0.2652	0.0071

Mercury	21579-12-22 23:02 G	9602983.34	9602983.46	9602983.58	0.2680	0.0511
Mercury	21590-06-26 14:38 G	9606822.02	9606822.11	9606822.20	0.2652	0.1969
Mercury	21592-12-24 19:26 G	9607734.20	9607734.31	9607734.42	0.2680	0.1208
Mercury	21610-06-21 20:52 G	9614122.26	9614122.37	9614122.47	0.2652	0.1671
Mercury	21612-12-20 07:40 G	9615034.74	9615034.82	9615034.91	0.2680	0.1839
Mercury	21623-06-24 20:38 G	9618873.23	9618873.36	9618873.50	0.2652	0.0395
Mercury	21625-12-23 04:04 G	9619785.55	9619785.67	9619785.79	0.2680	0.0166
Mercury	21636-06-26 20:09 G	9623624.29	9623624.34	9623624.40	0.2652	0.2377
Mercury	21638-12-26 00:43 G	9624536.43	9624536.53	9624536.63	0.2680	0.1565
Mercury	21656-06-22 02:38 G	9630924.49	9630924.61	9630924.73	0.2652	0.1239
Mercury	21658-12-21 12:57 G	9631836.94	9631837.04	9631837.14	0.2680	0.1493
Venus	21663-12-02 16:48 G	9633644.05	9633644.20	9633644.35	0.2679	0.0911
Mercury	21669-06-25 02:24 G	9635675.47	9635675.60	9635675.73	0.2652	0.0809
Mercury	21671-12-24 09:21 G	9636587.77	9636587.89	9636588.01	0.2680	0.0194
Mercury	21684-12-26 06:00 G	9641338.66	9641338.75	9641338.83	0.2680	0.1924
Mercury	21702-06-24 08:09 G	9647726.71	9647726.84	9647726.97	0.2652	0.0816
Mercury	21704-12-22 18:00 G	9648639.14	9648639.25	9648639.36	0.2680	0.1155
Mercury	21715-06-27 07:55 G	9652477.72	9652477.83	9652477.95	0.2652	0.1226
Mercury	21717-12-25 14:24 G	9653389.98	9653390.10	9653390.22	0.2680	0.0541
Mercury	21730-12-28 11:02 G	9658140.90	9658140.96	9658141.03	0.2680	0.2283
Mercury	21735-06-22 13:40 G	9659778.03	9659778.07	9659778.12	0.2652	0.2492
Mercury	21737-12-21 03:07 G	9660690.58	9660690.63	9660690.67	0.2680	0.2454
Mercury	21748-06-24 13:55 G	9664528.95	9664529.08	9664529.21	0.2652	0.0389
Mercury	21750-12-23 23:16 G	9665441.35	9665441.47	9665441.58	0.2680	0.0807
Mercury	21761-06-27 13:40 G	9669279.96	9669280.07	9669280.17	0.2652	0.1632
Mercury	21763-12-26 19:40 G	9670192.20	9670192.32	9670192.43	0.2680	0.0890
Mercury	21776-12-28 16:19 G	9674943.16	9674943.18	9674943.20	0.2679	0.2642
Mercury	21781-06-22 19:26 G	9676580.23	9676580.31	9676580.40	0.2652	0.2060
Mercury	21783-12-22 08:09 G	9677492.77	9677492.84	9677492.91	0.2680	0.2114
Venus	21793-06-03 09:21 G	9680943.74	9680943.89	9680944.04	0.2653	0.0894

Mercury	21794-06-25 19:26 G	9681331.18	9681331.31	9681331.45	0.2652	0.0091
Mercury	21796-12-24 04:19 G	9682243.56	9682243.68	9682243.80	0.2680	0.0460
Mercury	21807-06-29 19:12 G	9686082.22	9686082.30	9686082.39	0.2652	0.2044
Mercury	21809-12-28 00:57 G	9686994.43	9686994.54	9686994.64	0.2680	0.1252
Mercury	21827-06-25 01:12 G	9693382.44	9693382.55	9693382.66	0.2652	0.1622
Mercury	21829-12-23 13:12 G	9694294.96	9694295.05	9694295.14	0.2680	0.1777
Mercury	21840-06-27 01:12 G	9698133.42	9698133.55	9698133.69	0.2652	0.0451
Mercury	21842-12-26 09:36 G	9699045.78	9699045.90	9699046.02	0.2680	0.0117
Mercury	21853-06-30 00:43 G	9702884.49	9702884.53	9702884.58	0.2652	0.2447
Mercury	21855-12-29 06:00 G	9703796.66	9703796.75	9703796.85	0.2679	0.1608
Mercury	21873-06-25 06:57 G	9710184.67	9710184.79	9710184.91	0.2652	0.1195
Mercury	21875-12-24 18:28 G	9711097.16	9711097.27	9711097.37	0.2679	0.1444
Mercury	21886-06-28 06:57 G	9714935.66	9714935.79	9714935.92	0.2652	0.0871
Mercury	21888-12-26 14:38 G	9715847.99	9715848.11	9715848.23	0.2679	0.0241
Mercury	21901-12-30 11:16 G	9720598.89	9720598.97	9720599.05	0.2679	0.1965
Venus	21906-12-05 16:48 G	9722400.04	9722400.20	9722400.35	0.2678	0.0653
Mercury	21919-06-27 12:43 G	9726986.90	9726987.03	9726987.16	0.2652	0.0758
Mercury	21921-12-25 23:31 G	9727899.37	9727899.48	9727899.59	0.2679	0.1093
Mercury	21932-06-29 12:28 G	9731737.91	9731738.02	9731738.14	0.2652	0.1287
Mercury	21934-12-28 19:55 G	9732650.21	9732650.33	9732650.45	0.2679	0.0587
Mercury	21947-12-31 16:33 G	9737401.13	9737401.19	9737401.24	0.2679	0.2320
Mercury	21952-06-24 18:14 G	9739038.21	9739038.26	9739038.31	0.2652	0.2450
Mercury	21954-12-24 08:24 G	9739950.80	9739950.85	9739950.91	0.2679	0.2397
Mercury	21965-06-27 18:28 G	9743789.13	9743789.27	9743789.40	0.2652	0.0351
Mercury	21967-12-27 04:33 G	9744701.58	9744701.69	9744701.81	0.2679	0.0759
Mercury	21978-06-30 18:14 G	9748540.16	9748540.26	9748540.36	0.2652	0.1703
Mercury	21980-12-29 00:57 G	9749452.43	9749452.54	9749452.66	0.2679	0.0947
Mercury	21998-06-26 00:00 G	9755840.41	9755840.50	9755840.58	0.2652	0.2011
Mercury	22000-12-24 13:40 G	9756752.99	9756753.07	9756753.14	0.2679	0.2063

23RD MILLENNIUM CE

This is a list of transits visible from Earth in the 23rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	22011-06-29 00:00	G	9760591.37	9760591.50	9760591.64	0.2652	0.0107	
Mercury	22013-12-27 09:50	G	9761503.79	9761503.91	9761504.03	0.2679	0.0408	
Mercury	22024-06-30 23:45	G	9765342.41	9765342.49	9765342.57	0.2652	0.2111	
Mercury	22026-12-30 06:14	G	9766254.65	9766254.76	9766254.87	0.2679	0.1291	
Venus	22036-06-05 11:02	G	9769699.81	9769699.96	9769700.11	0.2653	0.0828	
Mercury	22044-06-26 05:31	G	9772642.62	9772642.73	9772642.84	0.2652	0.1580	
Mercury	22046-12-25 18:43	G	9773555.19	9773555.28	9773555.37	0.2679	0.1723	
Mercury	22057-06-29 05:45	G	9777393.61	9777393.74	9777393.87	0.2652	0.0512	
Mercury	22059-12-28 14:52	G	9778306.00	9778306.12	9778306.24	0.2679	0.0095	
Mercury	22070-07-02 05:31	G	9782144.69	9782144.73	9782144.77	0.2652	0.2526	
Mercury	22072-12-30 11:31	G	9783056.88	9783056.98	9783057.07	0.2679	0.1646	
Mercury	22090-06-27 11:16	G	9789444.85	9789444.97	9789445.10	0.2652	0.1146	
Mercury	22092-12-26 00:00	G	9790357.39	9790357.50	9790357.60	0.2679	0.1378	
Mercury	22103-07-01 11:31	G	9794195.85	9794195.98	9794196.10	0.2652	0.0936	
Mercury	22105-12-29 20:09	G	9795108.22	9795108.34	9795108.46	0.2679	0.0288	
Mercury	22119-01-01 16:33	G	9799859.11	9799859.19	9799859.27	0.2679	0.1994	
Mercury	22125-12-25 08:52	G	9802408.87	9802408.87	9802408.88	0.2679	0.2667	
Mercury	22136-06-28 17:02	G	9806247.08	9806247.21	9806247.34	0.2652	0.0719	
Mercury	22138-12-28 05:02	G	9807159.60	9807159.71	9807159.82	0.2679	0.1037	
Mercury	22149-07-01 17:02	G	9810998.09	9810998.21	9810998.33	0.2652	0.1347	

Venus	22149-12-06 17:02 G	9811156.05	9811156.21	9811156.36	0.2678	0.0420
Mercury	22151-12-31 01:26 G	9811910.44	9811910.56	9811910.67	0.2679	0.0645
Mercury	22165-01-01 21:50 G	9816661.35	9816661.41	9816661.46	0.2679	0.2359
Mercury	22169-06-26 22:33 G	9818298.38	9818298.44	9818298.49	0.2653	0.2409
Mercury	22171-12-26 14:09 G	9819211.03	9819211.09	9819211.14	0.2679	0.2336
Mercury	22182-06-29 22:48 G	9823049.31	9823049.45	9823049.59	0.2653	0.0280
Mercury	22184-12-28 10:04 G	9823961.81	9823961.92	9823962.04	0.2679	0.0704
Mercury	22195-07-02 22:48 G	9827800.35	9827800.45	9827800.55	0.2652	0.1765
Mercury	22197-12-31 06:28 G	9828712.66	9828712.77	9828712.88	0.2679	0.0986
Mercury	22215-06-29 04:19 G	9835100.58	9835100.68	9835100.77	0.2653	0.1969
Mercury	22217-12-27 19:12 G	9836013.22	9836013.30	9836013.38	0.2679	0.1997
Mercury	22228-07-01 04:33 G	9839851.55	9839851.69	9839851.82	0.2653	0.0152
Mercury	22230-12-30 15:21 G	9840764.02	9840764.14	9840764.26	0.2679	0.0359
Mercury	22241-07-04 04:33 G	9844602.61	9844602.69	9844602.76	0.2653	0.2187
Mercury	22244-01-02 11:31 G	9845514.88	9845514.98	9845515.09	0.2679	0.1337
Mercury	22261-06-29 09:50 G	9851902.80	9851902.91	9851903.03	0.2653	0.1536
Mercury	22263-12-29 00:14 G	9852815.42	9852815.51	9852815.61	0.2679	0.1662
Mercury	22274-07-02 10:19 G	9856653.79	9856653.93	9856654.06	0.2653	0.0578
Mercury	22276-12-30 20:24 G	9857566.23	9857566.35	9857566.47	0.2679	0.0069
Venus	22279-06-08 12:43 G	9858455.88	9858456.03	9858456.19	0.2654	0.0766
Mercury	22287-07-05 10:04 G	9861404.90	9861404.92	9861404.94	0.2653	0.2596
Mercury	22290-01-02 16:48 G	9862317.11	9862317.20	9862317.29	0.2679	0.1683
Mercury	22307-07-01 15:36 G	9868705.03	9868705.15	9868705.28	0.2653	0.1099
Mercury	22309-12-30 05:31 G	9869617.62	9869617.73	9869617.83	0.2679	0.1325
Mercury	22320-07-03 15:50 G	9873456.04	9873456.16	9873456.29	0.2653	0.0992
Mercury	22323-01-02 01:40 G	9874368.45	9874368.57	9874368.69	0.2679	0.0343
Mercury	22336-01-04 22:04 G	9879119.34	9879119.42	9879119.49	0.2679	0.2043
Mercury	22342-12-28 14:38 G	9881669.08	9881669.11	9881669.13	0.2679	0.2603
Mercury	22353-07-01 21:21 G	9885507.26	9885507.39	9885507.53	0.2653	0.0665
Mercury	22355-12-31 10:33 G	9886419.83	9886419.94	9886420.05	0.2679	0.0986

Mercury	22366-07-04 21:36 G	9890258.29	9890258.40	9890258.52	0.2653	0.1419
Mercury	22369-01-02 06:43 G	9891170.66	9891170.78	9891170.90	0.2679	0.0680
Mercury	22382-01-05 03:07 G	9895921.58	9895921.63	9895921.68	0.2679	0.2391
Mercury	22386-06-30 02:38 G	9897558.55	9897558.61	9897558.67	0.2653	0.2374
Mercury	22388-12-28 19:40 G	9898471.26	9898471.32	9898471.38	0.2679	0.2267
Venus	22392-12-08 17:16 G	9899912.06	9899912.22	9899912.37	0.2677	0.0200
Mercury	22399-07-03 03:07 G	9902309.50	9902309.63	9902309.77	0.2653	0.0236
Mercury	22401-12-31 15:36 G	9903222.04	9903222.15	9903222.27	0.2679	0.0650
Mercury	22412-07-05 03:21 G	9907060.54	9907060.64	9907060.74	0.2653	0.1836
Mercury	22415-01-03 11:45 G	9907972.88	9907972.99	9907973.11	0.2679	0.1032
Mercury	22432-06-30 08:24 G	9914360.76	9914360.85	9914360.95	0.2653	0.1934
Mercury	22434-12-30 00:43 G	9915273.45	9915273.53	9915273.62	0.2679	0.1935
Mercury	22445-07-03 08:52 G	9919111.74	9919111.87	9919112.01	0.2653	0.0209
Mercury	22448-01-01 20:52 G	9920024.25	9920024.37	9920024.49	0.2678	0.0299
Mercury	22458-07-06 08:52 G	9923862.80	9923862.87	9923862.94	0.2653	0.2248
Mercury	22461-01-03 17:02 G	9924775.11	9924775.21	9924775.32	0.2678	0.1380
Mercury	22478-07-01 14:09 G	9931162.98	9931163.09	9931163.21	0.2653	0.1489
Mercury	22480-12-30 06:00 G	9932075.65	9932075.75	9932075.84	0.2678	0.1600
Mercury	22491-07-04 14:38 G	9935913.98	9935914.11	9935914.24	0.2653	0.0624
Mercury	22494-01-02 01:55 G	9936826.46	9936826.58	9936826.70	0.2678	0.0047
Mercury	22507-01-05 22:19 G	9941577.34	9941577.43	9941577.52	0.2678	0.1734
Venus	22522-06-10 14:38 G	9947211.95	9947212.11	9947212.26	0.2654	0.0707
Mercury	22524-07-02 20:09 G	9947965.21	9947965.34	9947965.46	0.2653	0.1044
Mercury	22527-01-01 11:02 G	9948877.85	9948877.96	9948878.06	0.2678	0.1266
Mercury	22537-07-05 20:24 G	9952716.22	9952716.35	9952716.47	0.2653	0.1058
Mercury	22540-01-04 07:12 G	9953628.68	9953628.80	9953628.92	0.2678	0.0395
Mercury	22553-01-06 03:21 G	9958379.57	9958379.64	9958379.72	0.2678	0.2082
Mercury	22559-12-30 20:09 G	9960929.31	9960929.34	9960929.38	0.2678	0.2539
Mercury	22570-07-04 01:55 G	9964767.44	9964767.58	9964767.71	0.2653	0.0614
Mercury	22573-01-01 16:04 G	9965680.06	9965680.17	9965680.28	0.2678	0.0929

Mercury	22583-07-07 02:09 G	9969518.48	9969518.59	9969518.70	0.2653	0.1481
Mercury	22586-01-04 12:14 G	9970430.89	9970431.01	9970431.13	0.2678	0.0728
Mercury	22599-01-07 08:38 G	9975181.81	9975181.86	9975181.91	0.2678	0.2434
Mercury	22603-07-03 06:57 G	9976818.73	9976818.79	9976818.85	0.2653	0.2334
Mercury	22606-01-01 01:12 G	9977731.49	9977731.55	9977731.62	0.2678	0.2209
Mercury	22616-07-05 07:40 G	9981569.68	9981569.82	9981569.95	0.2653	0.0189
Mercury	22619-01-03 21:07 G	9982482.27	9982482.38	9982482.50	0.2678	0.0597
Mercury	22629-07-08 07:40 G	9986320.73	9986320.82	9986320.92	0.2653	0.1900
Mercury	22632-01-06 17:16 G	9987233.11	9987233.22	9987233.34	0.2678	0.1082
Venus	22635-12-11 17:31 G	9988668.07	9988668.23	9988668.39	0.2677	0.0043
Mercury	22649-07-03 12:43 G	9993620.94	9993621.03	9993621.13	0.2653	0.1887
Mercury	22652-01-02 06:28 G	9994533.68	9994533.77	9994533.85	0.2678	0.1876
Mercury	22662-07-06 13:12 G	9998371.92	9998372.05	9998372.19	0.2653	0.0263
Mercury	22665-01-04 02:24 G	9999284.48	9999284.60	9999284.72	0.2678	0.0255
Mercury	22675-07-09 13:26 G	10003123.00	10003123.06	10003123.12	0.2653	0.2315
Mercury	22678-01-06 22:33 G	10004035.34	10004035.44	10004035.54	0.2678	0.1423
Mercury	22695-07-04 18:28 G	10010423.16	10010423.27	10010423.39	0.2653	0.1446
Mercury	22698-01-02 11:31 G	10011335.88	10011335.98	10011336.08	0.2678	0.1539
Mercury	22708-07-07 18:57 G	10015174.16	10015174.29	10015174.43	0.2653	0.0691
Mercury	22711-01-06 07:26 G	10016086.69	10016086.81	10016086.93	0.2678	0.0115
Mercury	22724-01-09 03:36 G	10020837.56	10020837.65	10020837.74	0.2678	0.1775
Mercury	22741-07-06 00:14 G	10027225.39	10027225.51	10027225.64	0.2653	0.1008
Mercury	22744-01-04 16:33 G	10028138.09	10028138.19	10028138.30	0.2678	0.1205
Mercury	22754-07-09 00:43 G	10031976.41	10031976.53	10031976.66	0.2653	0.1111
Mercury	22757-01-06 12:43 G	10032888.91	10032889.03	10032889.15	0.2678	0.0443
Venus	22765-06-12 16:19 G	10035968.02	10035968.18	10035968.33	0.2655	0.0630
Mercury	22770-01-09 08:52 G	10037639.80	10037639.87	10037639.94	0.2678	0.2123
Mercury	22777-01-02 01:55 G	10040189.54	10040189.58	10040189.62	0.2678	0.2472
Mercury	22787-07-07 06:00 G	10044027.62	10044027.75	10044027.89	0.2654	0.0573
Mercury	22790-01-04 21:50 G	10044940.29	10044940.41	10044940.52	0.2678	0.0871

Mercury	22800-07-09 06:28 G	10048778.66	10048778.77	10048778.88	0.2653	0.1537
Mercury	22803-01-07 17:45 G	10049691.13	10049691.24	10049691.36	0.2678	0.0784
Mercury	22816-01-10 13:55 G	10054442.04	10054442.08	10054442.13	0.2678	0.2477
Mercury	22820-07-04 11:16 G	10056078.90	10056078.97	10056079.03	0.2654	0.2295
Mercury	22823-01-03 06:57 G	10056991.72	10056991.79	10056991.86	0.2678	0.2143
Mercury	22833-07-07 11:45 G	10060829.86	10060829.99	10060830.13	0.2654	0.0154
Mercury	22836-01-06 02:52 G	10061742.50	10061742.62	10061742.74	0.2678	0.0531
Mercury	22846-07-10 12:14 G	10065580.92	10065581.01	10065581.10	0.2654	0.1960
Mercury	22849-01-07 22:48 G	10066493.35	10066493.45	10066493.56	0.2678	0.1131
Mercury	22866-07-05 17:02 G	10072881.11	10072881.21	10072881.31	0.2654	0.1847
Mercury	22869-01-03 12:00 G	10073793.92	10073794.00	10073794.09	0.2678	0.1812
Venus	22878-12-12 18:00 G	10077424.10	10077424.25	10077424.41	0.2676	0.0237
Mercury	22879-07-08 17:45 G	10077632.10	10077632.24	10077632.37	0.2654	0.0317
Mercury	22882-01-06 07:55 G	10078544.71	10078544.83	10078544.95	0.2678	0.0199
Mercury	22892-07-10 18:00 G	10082383.19	10082383.25	10082383.31	0.2654	0.2388
Mercury	22895-01-09 04:04 G	10083295.57	10083295.67	10083295.77	0.2678	0.1471
Mercury	22912-07-06 22:48 G	10089683.33	10089683.45	10089683.57	0.2654	0.1406
Mercury	22915-01-05 17:02 G	10090596.12	10090596.21	10090596.31	0.2678	0.1485
Mercury	22925-07-09 23:16 G	10094434.34	10094434.47	10094434.61	0.2654	0.0747
Mercury	22928-01-08 12:57 G	10095346.92	10095347.04	10095347.16	0.2678	0.0170
Mercury	22941-01-10 09:07 G	10100097.79	10100097.88	10100097.97	0.2678	0.1816
Mercury	22958-07-08 04:33 G	10106485.56	10106485.69	10106485.82	0.2654	0.0960
Mercury	22961-01-05 22:19 G	10107398.32	10107398.43	10107398.54	0.2678	0.1146
Mercury	22971-07-11 05:16 G	10111236.59	10111236.72	10111236.84	0.2654	0.1175
Mercury	22974-01-08 18:14 G	10112149.14	10112149.26	10112149.38	0.2677	0.0489
Mercury	22987-01-11 14:24 G	10116900.03	10116900.10	10116900.17	0.2678	0.2164
Mercury	22994-01-04 07:40 G	10119449.77	10119449.82	10119449.87	0.2678	0.2404

24TH MILLENNIUM CE

This is a list of transits visible from Earth in the 24th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	23004-07-09 10:19	G	10123287.80	10123287.93	10123288.07	0.2654	0.0522	
Mercury	23007-01-08 03:21	G	10124200.53	10124200.64	10124200.75	0.2678	0.0809	
Venus	23008-06-14 18:00	G	10124724.09	10124724.25	10124724.40	0.2656	0.0569	
Mercury	23017-07-12 10:48	G	10128038.85	10128038.95	10128039.06	0.2654	0.1601	
Mercury	23020-01-10 23:16	G	10128951.36	10128951.47	10128951.58	0.2678	0.0829	
Mercury	23033-01-12 19:26	G	10133702.27	10133702.31	10133702.35	0.2677	0.2513	
Mercury	23037-07-07 15:21	G	10135339.07	10135339.14	10135339.21	0.2654	0.2267	
Mercury	23040-01-06 12:43	G	10136251.95	10136252.03	10136252.10	0.2677	0.2078	
Mercury	23050-07-10 16:04	G	10140090.04	10140090.17	10140090.31	0.2654	0.0110	
Mercury	23053-01-08 08:24	G	10141002.74	10141002.85	10141002.97	0.2677	0.0476	
Mercury	23063-07-13 16:33	G	10144841.11	10144841.19	10144841.28	0.2654	0.2028	
Mercury	23066-01-11 04:33	G	10145753.58	10145753.69	10145753.79	0.2677	0.1178	
Mercury	23083-07-08 21:07	G	10152141.28	10152141.38	10152141.48	0.2654	0.1816	
Mercury	23086-01-06 17:45	G	10153054.15	10153054.24	10153054.33	0.2677	0.1748	
Mercury	23096-07-10 21:50	G	10156892.28	10156892.41	10156892.55	0.2654	0.0364	
Mercury	23099-01-09 13:26	G	10157804.94	10157805.06	10157805.18	0.2677	0.0165	
Mercury	23109-07-14 22:19	G	10161643.38	10161643.43	10161643.48	0.2654	0.2451	
Mercury	23112-01-13 09:36	G	10162555.80	10162555.90	10162556.00	0.2677	0.1519	
Venus	23121-12-15 18:28	G	10166180.12	10166180.27	10166180.43	0.2675	0.0426	
Mercury	23129-07-10 02:52	G	10168943.50	10168943.62	10168943.74	0.2654	0.1365	
Mercury	23132-01-08 22:48	G	10169856.35	10169856.45	10169856.55	0.2677	0.1416	
Mercury	23142-07-13 03:50	G	10173694.53	10173694.66	10173694.79	0.2654	0.0798	

Mercury	23145-01-10 18:43 G	10174607.16	10174607.28	10174607.40	0.2677	0.0208
Mercury	23158-01-13 14:38 G	10179358.03	10179358.11	10179358.20	0.2677	0.1862
Mercury	23165-01-06 08:09 G	10181907.84	10181907.84	10181907.85	0.2677	0.2667
Mercury	23175-07-11 08:52 G	10185745.74	10185745.87	10185746.00	0.2654	0.0920
Mercury	23178-01-09 03:50 G	10186658.55	10186658.66	10186658.77	0.2677	0.1088
Mercury	23188-07-13 09:36 G	10190496.78	10190496.90	10190497.02	0.2654	0.1231
Mercury	23191-01-11 23:45 G	10191409.37	10191409.49	10191409.61	0.2677	0.0539
Mercury	23204-01-14 19:55 G	10196160.26	10196160.33	10196160.39	0.2677	0.2210
Mercury	23211-01-07 13:12 G	10198710.00	10198710.05	10198710.11	0.2677	0.2347
Mercury	23221-07-11 14:38 G	10202547.97	10202548.11	10202548.25	0.2654	0.0470
Mercury	23224-01-10 08:52 G	10203460.76	10203460.87	10203460.99	0.2677	0.0757
Mercury	23234-07-14 15:21 G	10207299.03	10207299.14	10207299.24	0.2654	0.1661
Mercury	23237-01-12 04:48 G	10208211.59	10208211.70	10208211.82	0.2677	0.0880
Mercury	23250-01-15 00:57 G	10212962.51	10212962.54	10212962.57	0.2677	0.2555
Venus	23251-06-16 19:26 G	10213480.15	10213480.31	10213480.47	0.2656	0.0469
Mercury	23254-07-09 19:26 G	10214599.24	10214599.31	10214599.38	0.2654	0.2233
Mercury	23257-01-07 18:28 G	10215512.19	10215512.27	10215512.34	0.2677	0.2016
Mercury	23267-07-12 20:24 G	10219350.21	10219350.35	10219350.49	0.2654	0.0036
Mercury	23270-01-10 13:55 G	10220262.97	10220263.08	10220263.20	0.2677	0.0437
Mercury	23280-07-14 21:07 G	10224101.29	10224101.38	10224101.46	0.2654	0.2089
Mercury	23283-01-13 09:50 G	10225013.81	10225013.91	10225014.02	0.2677	0.1222
Mercury	23300-07-11 01:12 G	10231401.45	10231401.55	10231401.65	0.2655	0.1785
Mercury	23303-01-09 23:31 G	10232314.39	10232314.48	10232314.57	0.2677	0.1687
Mercury	23313-07-14 02:09 G	10236152.46	10236152.59	10236152.73	0.2654	0.0415
Mercury	23316-01-12 19:12 G	10237065.18	10237065.30	10237065.42	0.2677	0.0086
Mercury	23326-07-17 02:38 G	10240903.57	10240903.61	10240903.66	0.2654	0.2510
Mercury	23329-01-14 15:07 G	10241816.03	10241816.13	10241816.23	0.2677	0.1558
Mercury	23346-07-12 07:12 G	10248203.68	10248203.80	10248203.92	0.2655	0.1332
Mercury	23349-01-10 04:33 G	10249116.59	10249116.69	10249116.79	0.2677	0.1356
Mercury	23359-07-15 07:55 G	10252954.70	10252954.83	10252954.96	0.2654	0.0840

Mercury	23362-01-13 00:14 G	10253867.39	10253867.51	10253867.63	0.2677	0.0255
Venus	23364-12-16 19:12 G	10254936.15	10254936.30	10254936.45	0.2675	0.0617
Mercury	23375-01-15 20:09 G	10258618.26	10258618.34	10258618.43	0.2677	0.1909
Mercury	23382-01-08 13:55 G	10261168.06	10261168.08	10261168.11	0.2677	0.2604
Mercury	23392-07-12 12:57 G	10265005.91	10265006.04	10265006.17	0.2655	0.0879
Mercury	23395-01-11 09:36 G	10265918.79	10265918.90	10265919.01	0.2677	0.1029
Mercury	23405-07-16 13:40 G	10269756.95	10269757.07	10269757.19	0.2655	0.1279
Mercury	23408-01-15 05:16 G	10270669.61	10270669.72	10270669.84	0.2677	0.0599
Mercury	23421-01-17 01:26 G	10275420.49	10275420.56	10275420.62	0.2677	0.2251
Mercury	23428-01-10 18:57 G	10277970.23	10277970.29	10277970.35	0.2677	0.2276
Mercury	23438-07-14 18:43 G	10281808.14	10281808.28	10281808.42	0.2655	0.0437
Mercury	23441-01-12 14:38 G	10282721.00	10282721.11	10282721.22	0.2677	0.0699
Mercury	23451-07-17 19:26 G	10286559.21	10286559.31	10286559.42	0.2655	0.1710
Mercury	23454-01-15 10:33 G	10287471.82	10287471.94	10287472.05	0.2677	0.0930
Mercury	23467-01-18 06:28 G	10292222.74	10292222.77	10292222.80	0.2677	0.2595
Mercury	23471-07-12 23:31 G	10293859.40	10293859.48	10293859.55	0.2655	0.2210
Mercury	23474-01-11 00:00 G	10294772.42	10294772.50	10294772.58	0.2677	0.1955
Mercury	23484-07-15 00:43 G	10298610.39	10298610.53	10298610.67	0.2655	0.0080
Mercury	23487-01-13 19:40 G	10299523.20	10299523.32	10299523.44	0.2677	0.0366
Venus	23494-06-18 20:52 G	10302236.21	10302236.37	10302236.53	0.2657	0.0380
Mercury	23497-07-18 01:12 G	10303361.48	10303361.55	10303361.63	0.2655	0.2144
Mercury	23500-01-16 15:36 G	10304274.04	10304274.15	10304274.25	0.2677	0.1266
Mercury	23517-07-14 05:16 G	10310661.62	10310661.72	10310661.83	0.2655	0.1749
Mercury	23520-01-13 05:02 G	10311574.62	10311574.71	10311574.81	0.2676	0.1629
Mercury	23530-07-17 06:28 G	10315412.63	10315412.77	10315412.90	0.2655	0.0454
Mercury	23533-01-15 00:43 G	10316325.41	10316325.53	10316325.65	0.2676	0.0076
Mercury	23543-07-20 06:57 G	10320163.76	10320163.79	10320163.83	0.2655	0.2569
Mercury	23546-01-17 20:38 G	10321076.27	10321076.36	10321076.46	0.2677	0.1607
Mercury	23563-07-15 11:16 G	10327463.85	10327463.97	10327464.09	0.2655	0.1299
Mercury	23566-01-13 10:04 G	10328376.82	10328376.92	10328377.03	0.2676	0.1306

Mercury	23576-07-17 12:14 G	10332214.88	10332215.01	10332215.14	0.2655	0.0893
Mercury	23579-01-16 05:45 G	10333127.63	10333127.74	10333127.86	0.2676	0.0319
Mercury	23592-01-19 01:40 G	10337878.49	10337878.57	10337878.65	0.2676	0.1947
Mercury	23599-01-11 19:40 G	10340428.29	10340428.32	10340428.36	0.2676	0.2534
Venus	23607-12-19 19:40 G	10343692.17	10343692.32	10343692.48	0.2674	0.0806
Mercury	23609-07-15 17:02 G	10344266.08	10344266.21	10344266.34	0.2655	0.0851
Mercury	23612-01-14 15:21 G	10345179.03	10345179.14	10345179.25	0.2676	0.0974
Mercury	23622-07-18 18:00 G	10349017.13	10349017.25	10349017.37	0.2655	0.1325
Mercury	23625-01-16 11:02 G	10349929.84	10349929.96	10349930.07	0.2676	0.0638
Mercury	23638-01-19 06:57 G	10354680.73	10354680.79	10354680.85	0.2676	0.2289
Mercury	23642-07-13 21:36 G	10356317.39	10356317.40	10356317.40	0.2655	0.2652
Mercury	23645-01-12 00:43 G	10357230.47	10357230.53	10357230.60	0.2676	0.2214
Mercury	23655-07-16 22:48 G	10361068.31	10361068.45	10361068.59	0.2655	0.0406
Mercury	23658-01-14 20:24 G	10361981.23	10361981.35	10361981.46	0.2676	0.0640
Mercury	23668-07-18 23:45 G	10365819.39	10365819.49	10365819.59	0.2655	0.1762
Mercury	23671-01-17 16:04 G	10366732.06	10366732.17	10366732.28	0.2676	0.0978
Mercury	23684-01-20 12:00 G	10371482.98	10371483.00	10371483.02	0.2676	0.2629
Mercury	23688-07-14 03:21 G	10373119.57	10373119.64	10373119.72	0.2655	0.2184
Mercury	23691-01-13 05:45 G	10374032.66	10374032.74	10374032.82	0.2676	0.1891
Mercury	23701-07-18 04:33 G	10377870.55	10377870.69	10377870.83	0.2655	0.0096
Mercury	23704-01-17 01:26 G	10378783.44	10378783.56	10378783.68	0.2676	0.0311
Mercury	23714-07-21 05:31 G	10382621.65	10382621.73	10382621.81	0.2655	0.2188
Mercury	23717-01-18 21:07 G	10383534.28	10383534.38	10383534.48	0.2676	0.1314
Mercury	23734-07-16 09:21 G	10389921.78	10389921.89	10389922.00	0.2655	0.1726
Mercury	23737-01-14 10:48 G	10390834.86	10390834.95	10390835.05	0.2676	0.1570
Venus	23737-06-20 22:04 G	10390992.26	10390992.42	10390992.58	0.2658	0.0258
Mercury	23747-07-19 10:33 G	10394672.80	10394672.94	10394673.08	0.2655	0.0495
Mercury	23750-01-17 06:28 G	10395585.65	10395585.77	10395585.89	0.2676	0.0033
Mercury	23760-07-21 11:16 G	10399423.96	10399423.97	10399423.99	0.2655	0.2625
Mercury	23763-01-20 02:09 G	10400336.50	10400336.59	10400336.69	0.2676	0.1654

Mercury	23780-07-16 15:07 G	10406724.01	10406724.13	10406724.26	0.2655	0.1271
Mercury	23783-01-15 15:50 G	10407637.06	10407637.16	10407637.27	0.2676	0.1242
Mercury	23793-07-19 16:19 G	10411475.05	10411475.18	10411475.31	0.2655	0.0935
Mercury	23796-01-18 11:31 G	10412387.86	10412387.98	10412388.10	0.2676	0.0350
Mercury	23809-01-21 07:26 G	10417138.73	10417138.81	10417138.88	0.2676	0.1990
Mercury	23816-01-15 01:26 G	10419688.52	10419688.56	10419688.60	0.2676	0.2475
Mercury	23826-07-18 21:07 G	10423526.24	10423526.38	10423526.51	0.2656	0.0822
Mercury	23829-01-16 20:52 G	10424439.26	10424439.37	10424439.48	0.2676	0.0917
Mercury	23839-07-21 22:19 G	10428277.31	10428277.43	10428277.54	0.2655	0.1378
Mercury	23842-01-19 16:33 G	10429190.08	10429190.19	10429190.31	0.2676	0.0690
Venus	23850-12-21 20:24 G	10432448.20	10432448.35	10432448.50	0.2673	0.0991
Mercury	23855-01-22 12:28 G	10433940.96	10433941.02	10433941.08	0.2676	0.2329
Mercury	23859-07-17 01:26 G	10435577.55	10435577.56	10435577.58	0.2656	0.2626
Mercury	23862-01-15 06:28 G	10436490.70	10436490.77	10436490.84	0.2676	0.2155
Mercury	23872-07-19 02:52 G	10440328.48	10440328.62	10440328.76	0.2656	0.0369
Mercury	23875-01-18 01:55 G	10441241.47	10441241.58	10441241.70	0.2676	0.0591
Mercury	23885-07-22 04:04 G	10445079.57	10445079.67	10445079.77	0.2655	0.1808
Mercury	23888-01-20 21:36 G	10445992.29	10445992.40	10445992.51	0.2676	0.1020
Mercury	23901-01-23 17:31 G	10450743.23	10450743.23	10450743.23	0.2676	0.2674
Mercury	23905-07-18 07:26 G	10452379.73	10452379.81	10452379.89	0.2656	0.2168
Mercury	23908-01-17 11:31 G	10453292.90	10453292.98	10453293.07	0.2676	0.1830
Mercury	23918-07-21 08:52 G	10457130.73	10457130.87	10457131.01	0.2656	0.0088
Mercury	23921-01-19 06:57 G	10458043.68	10458043.79	10458043.91	0.2676	0.0271
Mercury	23931-07-24 09:50 G	10461881.84	10461881.91	10461881.98	0.2655	0.2250
Mercury	23934-01-22 02:52 G	10462794.51	10462794.62	10462794.72	0.2676	0.1360
Mercury	23951-07-19 13:12 G	10469181.95	10469182.05	10469182.16	0.2656	0.1708
Mercury	23954-01-17 16:33 G	10470095.10	10470095.19	10470095.29	0.2676	0.1504
Mercury	23964-07-21 14:38 G	10473932.97	10473933.11	10473933.25	0.2656	0.0528
Mercury	23967-01-20 12:14 G	10474845.89	10474846.01	10474846.12	0.2676	0.0123
Mercury	23980-01-23 07:55 G	10479596.74	10479596.83	10479596.92	0.2676	0.1694

Venus	23980-06-22 23:31 G	10479748.32	10479748.48	10479748.64	0.2658	0.0156
Mercury	23997-07-19 19:12 G	10485984.17	10485984.30	10485984.42	0.2656	0.1251
Mercury	24000-01-18 21:36 G	10486897.30	10486897.40	10486897.51	0.2676	0.1181

25TH MILLENNIUM CE

This is a list of transits visible from Earth in the 25th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	24010-07-22 20:24 G		10490735.22	10490735.35	10490735.48	0.2656	0.0976	
Mercury	24013-01-20 17:16 G		10491648.10	10491648.22	10491648.33	0.2676	0.0412	
Mercury	24026-01-23 12:57 G		10496398.97	10496399.04	10496399.12	0.2676	0.2037	
Mercury	24033-01-16 07:12 G		10498948.76	10498948.80	10498948.85	0.2675	0.2412	
Mercury	24043-07-21 01:12 G		10502786.41	10502786.55	10502786.68	0.2656	0.0787	
Mercury	24046-01-19 02:38 G		10503699.50	10503699.61	10503699.72	0.2675	0.0857	
Mercury	24056-07-23 02:24 G		10507537.48	10507537.60	10507537.71	0.2656	0.1416	
Mercury	24059-01-21 22:19 G		10508450.31	10508450.43	10508450.54	0.2675	0.0739	
Mercury	24072-01-24 18:00 G		10513201.20	10513201.25	10513201.31	0.2676	0.2375	
Mercury	24076-07-18 05:16 G		10514837.70	10514837.72	10514837.75	0.2656	0.2612	
Mercury	24079-01-17 12:14 G		10515750.94	10515751.01	10515751.08	0.2675	0.2091	
Venus	24085-12-25 06:14 G		10518284.74	10518284.76	10518284.77	0.2673	0.2657	
Mercury	24089-07-21 06:57 G		10519588.65	10519588.79	10519588.93	0.2656	0.0335	
Mercury	24092-01-20 07:40 G		10520501.71	10520501.82	10520501.94	0.2675	0.0533	
Venus	24093-12-22 21:21 G		10521204.24	10521204.39	10521204.53	0.2672	0.1160	
Mercury	24102-07-25 08:09 G		10524339.74	10524339.84	10524339.94	0.2656	0.1864	

Mercury	24105-01-23 03:21 G	10525252.53	10525252.64	10525252.75	0.2675	0.1071
Mercury	24122-07-20 11:16 G	10531639.89	10531639.97	10531640.05	0.2656	0.2146
Mercury	24125-01-18 17:16 G	10532553.13	10532553.22	10532553.31	0.2675	0.1770
Mercury	24135-07-23 12:57 G	10536390.89	10536391.04	10536391.18	0.2656	0.0147
Mercury	24138-01-21 12:43 G	10537303.91	10537304.03	10537304.15	0.2675	0.0210
Mercury	24148-07-25 13:55 G	10541142.02	10541142.08	10541142.15	0.2656	0.2297
Mercury	24151-01-24 08:24 G	10542054.75	10542054.85	10542054.95	0.2675	0.1403
Mercury	24168-07-20 17:16 G	10548442.11	10548442.22	10548442.33	0.2656	0.1684
Mercury	24171-01-19 22:19 G	10549355.33	10549355.43	10549355.53	0.2675	0.1448
Mercury	24181-07-23 18:43 G	10553193.14	10553193.28	10553193.42	0.2656	0.0568
Mercury	24184-01-22 17:45 G	10554106.13	10554106.24	10554106.36	0.2675	0.0146
Mercury	24197-01-24 13:26 G	10558856.97	10558857.06	10558857.15	0.2675	0.1742
Mercury	24204-01-19 08:09 G	10561406.83	10561406.84	10561406.85	0.2675	0.2661
Mercury	24214-07-22 23:16 G	10565244.34	10565244.47	10565244.59	0.2656	0.1222
Mercury	24217-01-21 03:21 G	10566157.54	10566157.64	10566157.75	0.2675	0.1124
Venus	24223-06-26 00:28 G	10568504.36	10568504.52	10568504.68	0.2659	0.0019
Mercury	24227-07-26 00:28 G	10569995.39	10569995.52	10569995.65	0.2656	0.1016
Mercury	24230-01-23 22:48 G	10570908.34	10570908.45	10570908.57	0.2675	0.0467
Mercury	24243-01-26 18:28 G	10575659.20	10575659.27	10575659.35	0.2675	0.2074
Mercury	24250-01-19 13:12 G	10578208.99	10578209.05	10578209.10	0.2675	0.2346
Mercury	24260-07-23 05:02 G	10582046.58	10582046.71	10582046.85	0.2656	0.0762
Mercury	24263-01-22 08:24 G	10582959.74	10582959.85	10582959.96	0.2675	0.0798
Mercury	24273-07-26 06:28 G	10586797.65	10586797.77	10586797.88	0.2656	0.1460
Mercury	24276-01-25 04:04 G	10587710.55	10587710.67	10587710.78	0.2675	0.0793
Mercury	24289-01-26 23:45 G	10592461.44	10592461.49	10592461.54	0.2675	0.2414
Mercury	24293-07-21 09:07 G	10594097.86	10594097.88	10594097.91	0.2657	0.2600
Mercury	24296-01-20 18:14 G	10595011.18	10595011.26	10595011.33	0.2675	0.2026
Mercury	24306-07-25 11:02 G	10598848.82	10598848.96	10598849.10	0.2656	0.0318
Mercury	24309-01-23 13:26 G	10599761.95	10599762.06	10599762.18	0.2675	0.0475
Mercury	24319-07-28 12:14 G	10603599.91	10603600.01	10603600.11	0.2656	0.1899

Mercury	24322-01-26 09:07 G	10604512.77	10604512.88	10604512.98	0.2675	0.1124
Venus	24328-12-28 06:57 G	10607040.73	10607040.79	10607040.84	0.2672	0.2478
Venus	24336-12-25 22:04 G	10609960.28	10609960.42	10609960.55	0.2672	0.1328
Mercury	24339-07-23 15:07 G	10610900.05	10610900.13	10610900.22	0.2657	0.2129
Mercury	24342-01-21 23:02 G	10611813.38	10611813.46	10611813.55	0.2675	0.1708
Mercury	24352-07-25 16:48 G	10615651.06	10615651.20	10615651.34	0.2657	0.0152
Mercury	24355-01-24 18:28 G	10616564.15	10616564.27	10616564.39	0.2675	0.0158
Mercury	24365-07-28 18:14 G	10620402.19	10620402.26	10620402.32	0.2656	0.2344
Mercury	24368-01-27 14:09 G	10621314.99	10621315.09	10621315.19	0.2675	0.1455
Mercury	24385-07-23 21:07 G	10627702.27	10627702.38	10627702.49	0.2657	0.1659
Mercury	24388-01-23 04:04 G	10628615.58	10628615.67	10628615.77	0.2675	0.1389
Mercury	24398-07-26 22:48 G	10632453.31	10632453.45	10632453.59	0.2657	0.0606
Mercury	24401-01-24 23:31 G	10633366.37	10633366.48	10633366.60	0.2675	0.0192
Mercury	24414-01-27 19:12 G	10638117.21	10638117.30	10638117.39	0.2675	0.1786
Mercury	24421-01-20 13:55 G	10640667.06	10640667.08	10640667.10	0.2674	0.2599
Mercury	24431-07-25 03:07 G	10644504.50	10644504.63	10644504.75	0.2657	0.1199
Mercury	24434-01-23 09:07 G	10645417.78	10645417.88	10645417.99	0.2675	0.1066
Mercury	24444-07-27 04:33 G	10649255.57	10649255.69	10649255.82	0.2657	0.1060
Mercury	24447-01-26 04:33 G	10650168.58	10650168.69	10650168.81	0.2675	0.0509
Mercury	24460-01-29 00:14 G	10654919.44	10654919.51	10654919.58	0.2675	0.2121
Venus	24466-06-27 01:55 G	10657260.42	10657260.58	10657260.74	0.2660	0.0079
Mercury	24467-01-21 18:57 G	10657469.23	10657469.29	10657469.35	0.2674	0.2277
Mercury	24477-07-25 08:52 G	10661306.74	10661306.87	10661307.01	0.2657	0.0742
Mercury	24480-01-24 14:09 G	10662219.98	10662220.09	10662220.21	0.2674	0.0745
Mercury	24490-07-28 10:33 G	10666057.82	10666057.94	10666058.05	0.2657	0.1502
Mercury	24493-01-26 09:36 G	10666970.79	10666970.90	10666971.01	0.2675	0.0836
Mercury	24506-01-30 05:16 G	10671721.68	10671721.72	10671721.77	0.2675	0.2456
Mercury	24510-07-24 12:57 G	10673358.01	10673358.04	10673358.07	0.2657	0.2592
Mercury	24513-01-23 00:00 G	10674271.42	10674271.50	10674271.58	0.2674	0.1960
Mercury	24523-07-27 14:52 G	10678108.98	10678109.12	10678109.26	0.2657	0.0278

Mercury	24526-01-25 19:12 G	10679022.19	10679022.30	10679022.42	0.2675	0.0419
Mercury	24536-07-29 16:19 G	10682860.09	10682860.18	10682860.28	0.2657	0.1949
Mercury	24539-01-28 14:38 G	10683773.01	10683773.11	10683773.22	0.2675	0.1171
Mercury	24556-07-24 18:57 G	10690160.21	10690160.29	10690160.38	0.2657	0.2116
Mercury	24559-01-24 05:02 G	10691073.62	10691073.71	10691073.80	0.2674	0.1640
Mercury	24569-07-27 20:52 G	10694911.23	10694911.37	10694911.51	0.2657	0.0184
Venus	24571-12-30 07:55 G	10695796.76	10695796.83	10695796.91	0.2671	0.2331
Mercury	24572-01-27 00:14 G	10695824.40	10695824.51	10695824.63	0.2674	0.0112
Venus	24579-12-27 23:16 G	10698716.34	10698716.47	10698716.60	0.2671	0.1451
Mercury	24582-07-30 22:19 G	10699662.37	10699662.43	10699662.48	0.2657	0.2389
Mercury	24585-01-28 19:40 G	10700575.23	10700575.32	10700575.42	0.2675	0.1507
Mercury	24602-07-27 00:57 G	10706962.43	10706962.54	10706962.65	0.2657	0.1649
Mercury	24605-01-25 10:04 G	10707875.82	10707875.92	10707876.02	0.2674	0.1327
Mercury	24615-07-30 02:38 G	10711713.48	10711713.61	10711713.75	0.2657	0.0643
Mercury	24618-01-28 05:16 G	10712626.60	10712626.72	10712626.84	0.2674	0.0241
Mercury	24631-01-31 00:57 G	10717377.45	10717377.54	10717377.62	0.2674	0.1837
Mercury	24638-01-23 19:55 G	10719927.29	10719927.33	10719927.36	0.2674	0.2527
Mercury	24648-07-27 06:57 G	10723764.66	10723764.79	10723764.92	0.2657	0.1176
Mercury	24651-01-26 15:07 G	10724678.02	10724678.13	10724678.23	0.2674	0.1006
Mercury	24661-07-30 08:38 G	10728515.73	10728515.86	10728515.99	0.2657	0.1088
Mercury	24664-01-29 10:19 G	10729428.82	10729428.93	10729429.05	0.2674	0.0564
Mercury	24677-01-31 06:00 G	10734179.68	10734179.75	10734179.82	0.2674	0.2169
Mercury	24684-01-25 00:43 G	10736729.47	10736729.53	10736729.60	0.2674	0.2217
Mercury	24694-07-28 12:57 G	10740566.90	10740567.04	10740567.17	0.2657	0.0714
Mercury	24697-01-26 19:55 G	10741480.22	10741480.33	10741480.45	0.2674	0.0687
Mercury	24707-08-01 14:38 G	10745317.99	10745318.11	10745318.22	0.2657	0.1545
Venus	24709-06-30 02:52 G	10746016.46	10746016.62	10746016.78	0.2660	0.0235
Mercury	24710-01-30 15:21 G	10746231.03	10746231.14	10746231.25	0.2674	0.0897
Mercury	24723-02-02 11:02 G	10750981.92	10750981.96	10750982.00	0.2674	0.2502
Mercury	24727-07-27 16:48 G	10752618.17	10752618.20	10752618.23	0.2658	0.2574

Mercury	24730-01-26 05:45 G	10753531.66	10753531.74	10753531.82	0.2674	0.1898
Mercury	24740-07-29 18:57 G	10757369.14	10757369.29	10757369.43	0.2657	0.0261
Mercury	24743-01-29 00:57 G	10758282.43	10758282.54	10758282.66	0.2674	0.0371
Mercury	24753-08-01 20:24 G	10762120.26	10762120.35	10762120.44	0.2657	0.1989
Mercury	24756-01-31 20:24 G	10763033.25	10763033.35	10763033.46	0.2674	0.1224
Mercury	24773-07-27 22:48 G	10769420.36	10769420.45	10769420.54	0.2658	0.2104
Mercury	24776-01-27 10:48 G	10770333.86	10770333.95	10770334.04	0.2674	0.1585
Mercury	24786-07-31 00:43 G	10774171.39	10774171.53	10774171.67	0.2657	0.0219
Mercury	24789-01-29 06:00 G	10775084.64	10775084.75	10775084.87	0.2674	0.0070
Mercury	24799-08-03 02:24 G	10778922.54	10778922.60	10778922.65	0.2657	0.2438
Mercury	24802-02-01 01:26 G	10779835.47	10779835.56	10779835.66	0.2674	0.1553
Venus	24815-01-01 08:52 G	10784552.78	10784552.87	10784552.96	0.2671	0.2178
Mercury	24819-07-29 04:48 G	10786222.59	10786222.70	10786222.81	0.2658	0.1628
Mercury	24822-01-27 15:50 G	10787136.06	10787136.16	10787136.26	0.2674	0.1258
Venus	24822-12-30 00:14 G	10787472.38	10787472.51	10787472.63	0.2670	0.1615
Mercury	24832-07-31 06:43 G	10790973.64	10790973.78	10790973.92	0.2657	0.0669
Mercury	24835-01-30 11:02 G	10791886.85	10791886.96	10791887.08	0.2674	0.0301
Mercury	24848-02-02 06:28 G	10796637.69	10796637.77	10796637.86	0.2674	0.1880
Mercury	24855-01-26 01:40 G	10799187.53	10799187.57	10799187.61	0.2674	0.2460
Mercury	24865-07-29 10:48 G	10803024.82	10803024.95	10803025.07	0.2658	0.1168
Mercury	24868-01-28 20:52 G	10803938.26	10803938.37	10803938.48	0.2674	0.0940
Mercury	24878-08-01 12:28 G	10807775.90	10807776.02	10807776.15	0.2658	0.1128
Mercury	24881-01-30 16:19 G	10808689.06	10808689.18	10808689.29	0.2674	0.0629
Mercury	24894-02-02 11:45 G	10813439.92	10813439.99	10813440.05	0.2674	0.2213
Mercury	24901-01-27 06:43 G	10815989.71	10815989.78	10815989.85	0.2673	0.2148
Mercury	24911-07-31 16:48 G	10819827.06	10819827.20	10819827.33	0.2658	0.0696
Mercury	24914-01-30 01:55 G	10820740.47	10820740.58	10820740.69	0.2674	0.0619
Mercury	24924-08-02 18:28 G	10824578.16	10824578.27	10824578.38	0.2657	0.1573
Mercury	24927-02-01 21:07 G	10825491.27	10825491.38	10825491.49	0.2674	0.0951
Mercury	24940-02-04 16:48 G	10830242.16	10830242.20	10830242.23	0.2674	0.2549

Mercury	24944-07-28 20:24 G	10831878.32	10831878.35	10831878.39	0.2658	0.2573
Mercury	24947-01-28 11:45 G	10832791.90	10832791.99	10832792.07	0.2673	0.1836
Venus	24952-07-01 04:04 G	10834772.51	10834772.67	10834772.83	0.2661	0.0340
Mercury	24957-07-31 22:33 G	10836629.30	10836629.44	10836629.59	0.2658	0.0243
Mercury	24960-01-31 06:57 G	10837542.67	10837542.79	10837542.90	0.2674	0.0307
Mercury	24970-08-04 00:28 G	10841380.43	10841380.52	10841380.61	0.2658	0.2030
Mercury	24973-02-02 02:09 G	10842293.49	10842293.59	10842293.70	0.2674	0.1274
Mercury	24990-07-30 02:38 G	10848680.52	10848680.61	10848680.69	0.2658	0.2091
Mercury	24993-01-28 16:48 G	10849594.10	10849594.20	10849594.29	0.2673	0.1516

26TH MILLENNIUM CE

This is a list of transits visible from Earth in the 26th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	25003-08-03 04:33 G		10853431.55	10853431.69	10853431.84	0.2658	0.0249	
Mercury	25006-02-01 12:00 G		10854344.88	10854345.00	10854345.11	0.2673	0.0060	
Mercury	25016-08-05 06:14 G		10858182.71	10858182.76	10858182.81	0.2658	0.2477	
Mercury	25019-02-04 07:12 G		10859095.71	10859095.80	10859095.90	0.2674	0.1597	
Mercury	25036-07-31 08:24 G		10865482.74	10865482.85	10865482.97	0.2658	0.1625	
Mercury	25039-01-30 21:36 G		10866396.30	10866396.40	10866396.51	0.2673	0.1206	
Mercury	25049-08-03 10:33 G		10870233.80	10870233.94	10870234.08	0.2658	0.0698	
Mercury	25052-02-02 17:02 G		10871147.09	10871147.21	10871147.32	0.2673	0.0356	
Venus	25058-01-03 10:04 G		10873308.82	10873308.92	10873309.02	0.2670	0.2044	
Mercury	25065-02-04 12:14 G		10875897.93	10875898.01	10875898.09	0.2673	0.1929	

Venus	25066-01-01 01:26 G	10876228.44	10876228.56	10876228.68	0.2670	0.1714
Mercury	25072-01-29 07:40 G	10878447.77	10878447.82	10878447.87	0.2673	0.2399
Mercury	25082-08-01 14:38 G	10882284.98	10882285.11	10882285.23	0.2658	0.1144
Mercury	25085-01-31 02:38 G	10883198.50	10883198.61	10883198.72	0.2673	0.0886
Mercury	25095-08-04 16:33 G	10887036.06	10887036.19	10887036.32	0.2658	0.1155
Mercury	25098-02-02 21:50 G	10887949.30	10887949.41	10887949.53	0.2673	0.0673
Mercury	25111-02-06 17:16 G	10892700.16	10892700.22	10892700.28	0.2673	0.2256
Mercury	25118-01-30 12:43 G	10895249.96	10895250.03	10895250.10	0.2673	0.2083
Mercury	25128-08-02 20:24 G	10899087.22	10899087.35	10899087.49	0.2658	0.0681
Mercury	25131-02-02 07:40 G	10900000.71	10900000.82	10900000.94	0.2673	0.0568
Mercury	25141-08-05 22:33 G	10903838.33	10903838.44	10903838.55	0.2658	0.1616
Mercury	25144-02-05 02:52 G	10904751.51	10904751.62	10904751.73	0.2673	0.0992
Mercury	25157-02-06 22:19 G	10909502.41	10909502.43	10909502.46	0.2673	0.2586
Mercury	25161-08-01 00:14 G	10911138.47	10911138.51	10911138.54	0.2659	0.2575
Mercury	25164-01-31 17:45 G	10912052.15	10912052.24	10912052.32	0.2673	0.1769
Mercury	25174-08-04 02:24 G	10915889.46	10915889.60	10915889.75	0.2658	0.0218
Mercury	25177-02-02 12:43 G	10916802.91	10916803.03	10916803.15	0.2673	0.0243
Mercury	25187-08-07 04:19 G	10920640.59	10920640.68	10920640.77	0.2658	0.2060
Mercury	25190-02-05 07:55 G	10921553.73	10921553.83	10921553.94	0.2673	0.1316
Venus	25195-07-04 04:48 G	10923528.55	10923528.70	10923528.86	0.2662	0.0517
Mercury	25207-08-02 06:14 G	10927940.67	10927940.76	10927940.84	0.2659	0.2097
Mercury	25210-01-31 22:33 G	10928854.35	10928854.44	10928854.54	0.2673	0.1455
Mercury	25220-08-04 08:24 G	10932691.71	10932691.85	10932691.99	0.2658	0.0251
Mercury	25223-02-03 17:45 G	10933605.12	10933605.24	10933605.36	0.2673	0.0081
Mercury	25233-08-07 10:19 G	10937442.89	10937442.93	10937442.97	0.2658	0.2513
Mercury	25236-02-06 12:57 G	10938355.95	10938356.04	10938356.14	0.2673	0.1652
Mercury	25243-01-30 08:38 G	10940905.85	10940905.86	10940905.87	0.2673	0.2643
Mercury	25253-08-02 12:14 G	10944742.90	10944743.01	10944743.12	0.2659	0.1608
Mercury	25256-02-02 03:36 G	10945656.55	10945656.65	10945656.76	0.2673	0.1140
Mercury	25266-08-05 14:24 G	10949493.96	10949494.10	10949494.24	0.2658	0.0719

Mercury	25269-02-03 22:48 G	10950407.33	10950407.45	10950407.56	0.2673	0.0401
Mercury	25282-02-06 18:00 G	10955158.18	10955158.25	10955158.33	0.2673	0.1975
Mercury	25289-01-30 13:40 G	10957708.01	10957708.07	10957708.12	0.2673	0.2331
Mercury	25299-08-03 18:14 G	10961545.13	10961545.26	10961545.39	0.2659	0.1136
Venus	25301-01-05 11:02 G	10962064.85	10962064.96	10962065.07	0.2669	0.1886
Mercury	25302-02-03 08:38 G	10962458.75	10962458.86	10962458.97	0.2673	0.0830
Venus	25309-01-03 02:24 G	10964984.49	10964984.60	10964984.71	0.2669	0.1874
Mercury	25312-08-06 20:24 G	10966296.22	10966296.35	10966296.48	0.2658	0.1185
Mercury	25315-02-06 03:50 G	10967209.54	10967209.66	10967209.77	0.2673	0.0722
Mercury	25328-02-08 23:02 G	10971960.41	10971960.46	10971960.52	0.2673	0.2304
Mercury	25335-02-01 18:28 G	10974510.20	10974510.27	10974510.35	0.2672	0.2022
Mercury	25345-08-05 00:14 G	10978347.37	10978347.51	10978347.65	0.2659	0.0662
Mercury	25348-02-04 13:40 G	10979260.95	10979261.07	10979261.18	0.2673	0.0516
Mercury	25358-08-08 02:24 G	10983098.49	10983098.60	10983098.71	0.2658	0.1640
Mercury	25361-02-06 08:52 G	10984011.76	10984011.87	10984011.97	0.2673	0.1044
Mercury	25374-02-09 04:04 G	10988762.66	10988762.67	10988762.69	0.2673	0.2629
Mercury	25378-08-03 03:50 G	10990398.62	10990398.66	10990398.69	0.2659	0.2574
Mercury	25381-02-01 23:31 G	10991312.39	10991312.48	10991312.57	0.2672	0.1710
Mercury	25391-08-06 06:14 G	10995149.62	10995149.76	10995149.90	0.2659	0.0201
Mercury	25394-02-04 18:28 G	10996063.16	10996063.27	10996063.39	0.2673	0.0200
Mercury	25404-08-09 08:09 G	10999900.76	10999900.84	10999900.93	0.2658	0.2095
Mercury	25407-02-08 13:55 G	11000813.98	11000814.08	11000814.18	0.2673	0.1371
Mercury	25424-08-04 09:50 G	11007200.82	11007200.91	11007201.00	0.2659	0.2090
Mercury	25427-02-04 04:33 G	11008114.59	11008114.69	11008114.79	0.2672	0.1399
Mercury	25437-08-07 12:14 G	11011951.87	11011952.01	11011952.15	0.2659	0.0277
Venus	25438-07-06 05:45 G	11012284.59	11012284.74	11012284.89	0.2663	0.0661
Mercury	25440-02-06 23:31 G	11012865.37	11012865.48	11012865.60	0.2673	0.0139
Mercury	25450-08-10 14:09 G	11016703.05	11016703.09	11016703.13	0.2658	0.2543
Mercury	25453-02-08 18:43 G	11017616.19	11017616.28	11017616.37	0.2673	0.1692
Mercury	25460-02-02 14:38 G	11020166.08	11020166.11	11020166.13	0.2672	0.2575

Mercury	25470-08-05 15:50 G	11024003.05	11024003.16	11024003.27	0.2659	0.1615
Mercury	25473-02-04 09:21 G	11024916.79	11024916.89	11024917.00	0.2672	0.1087
Mercury	25483-08-08 18:14 G	11028754.12	11028754.26	11028754.40	0.2659	0.0739
Mercury	25486-02-07 04:33 G	11029667.58	11029667.69	11029667.81	0.2673	0.0449
Mercury	25499-02-09 23:45 G	11034418.42	11034418.49	11034418.57	0.2673	0.2021
Mercury	25506-02-03 19:26 G	11036968.25	11036968.31	11036968.37	0.2672	0.2269
Mercury	25516-08-06 21:50 G	11040805.28	11040805.41	11040805.54	0.2659	0.1136
Mercury	25519-02-06 14:24 G	11041718.99	11041719.10	11041719.21	0.2672	0.0769
Mercury	25529-08-10 00:00 G	11045556.38	11045556.50	11045556.63	0.2659	0.1202
Mercury	25532-02-09 09:36 G	11046469.79	11046469.90	11046470.01	0.2672	0.0774
Venus	25544-01-08 12:14 G	11050820.90	11050821.01	11050821.13	0.2669	0.1772
Mercury	25545-02-11 04:48 G	11051220.65	11051220.70	11051220.76	0.2673	0.2345
Venus	25552-01-06 03:50 G	11053740.55	11053740.66	11053740.76	0.2668	0.1975
Mercury	25552-02-05 00:28 G	11053770.44	11053770.52	11053770.60	0.2672	0.1959
Mercury	25562-08-08 03:50 G	11057607.52	11057607.66	11057607.80	0.2659	0.0662
Mercury	25565-02-06 19:26 G	11058521.20	11058521.31	11058521.43	0.2672	0.0451
Mercury	25575-08-11 06:00 G	11062358.64	11062358.75	11062358.86	0.2659	0.1659
Mercury	25578-02-09 14:38 G	11063272.00	11063272.11	11063272.22	0.2672	0.1095
Mercury	25595-08-06 07:26 G	11069658.77	11069658.81	11069658.84	0.2660	0.2578
Mercury	25598-02-05 05:31 G	11070572.64	11070572.73	11070572.82	0.2672	0.1652
Mercury	25608-08-08 09:50 G	11074409.77	11074409.91	11074410.06	0.2659	0.0193
Mercury	25611-02-08 00:28 G	11075323.40	11075323.52	11075323.64	0.2672	0.0134
Mercury	25621-08-11 12:00 G	11079160.92	11079161.00	11079161.09	0.2659	0.2121
Mercury	25624-02-10 19:40 G	11080074.22	11080074.32	11080074.42	0.2672	0.1416
Mercury	25641-08-06 13:26 G	11086460.97	11086461.06	11086461.14	0.2659	0.2098
Mercury	25644-02-06 10:19 G	11087374.83	11087374.93	11087375.03	0.2672	0.1341
Mercury	25654-08-09 15:50 G	11091212.02	11091212.16	11091212.31	0.2659	0.0295
Mercury	25657-02-08 05:31 G	11092125.61	11092125.73	11092125.84	0.2672	0.0193
Mercury	25667-08-12 18:00 G	11095963.22	11095963.25	11095963.28	0.2659	0.2584
Mercury	25670-02-11 00:43 G	11096876.44	11096876.53	11096876.61	0.2672	0.1738

Mercury	25677-02-03 20:24 G	11099426.32	11099426.35	11099426.39	0.2672	0.2515
Venus	25681-07-07 06:28 G	11101040.62	11101040.77	11101040.92	0.2663	0.0833
Mercury	25687-08-07 19:26 G	11103263.20	11103263.31	11103263.42	0.2660	0.1613
Mercury	25690-02-06 15:21 G	11104177.04	11104177.14	11104177.25	0.2672	0.1025
Mercury	25700-08-10 21:50 G	11108014.28	11108014.41	11108014.55	0.2659	0.0757
Mercury	25703-02-10 10:33 G	11108927.82	11108927.94	11108928.05	0.2672	0.0511
Mercury	25716-02-13 05:31 G	11113678.66	11113678.73	11113678.81	0.2672	0.2061
Mercury	25723-02-06 01:26 G	11116228.50	11116228.56	11116228.63	0.2672	0.2205
Mercury	25733-08-09 01:26 G	11120065.43	11120065.56	11120065.69	0.2660	0.1134
Mercury	25736-02-08 20:24 G	11120979.24	11120979.35	11120979.46	0.2672	0.0709
Mercury	25746-08-12 03:50 G	11124816.54	11124816.66	11124816.79	0.2659	0.1220
Mercury	25749-02-10 15:21 G	11125730.03	11125730.14	11125730.25	0.2672	0.0822
Mercury	25762-02-13 10:33 G	11130480.89	11130480.94	11130480.99	0.2672	0.2389
Mercury	25769-02-06 06:28 G	11133030.69	11133030.77	11133030.85	0.2672	0.1895
Mercury	25779-08-10 07:26 G	11136867.67	11136867.81	11136867.95	0.2660	0.0656
Mercury	25782-02-09 01:26 G	11137781.44	11137781.56	11137781.67	0.2672	0.0395
Venus	25787-01-09 13:26 G	11139576.94	11139577.06	11139577.19	0.2668	0.1625
Mercury	25792-08-12 09:50 G	11141618.80	11141618.91	11141619.02	0.2659	0.1688
Venus	25795-01-07 05:02 G	11142496.61	11142496.71	11142496.80	0.2668	0.2109
Mercury	25795-02-11 20:24 G	11142532.25	11142532.35	11142532.46	0.2672	0.1143
Mercury	25812-08-08 10:48 G	11148918.92	11148918.95	11148918.97	0.2660	0.2598
Mercury	25815-02-08 11:31 G	11149832.88	11149832.98	11149833.07	0.2671	0.1588
Mercury	25825-08-11 13:26 G	11153669.92	11153670.06	11153670.21	0.2660	0.0188
Mercury	25828-02-11 06:14 G	11154583.65	11154583.76	11154583.88	0.2672	0.0129
Mercury	25838-08-14 15:50 G	11158421.08	11158421.16	11158421.24	0.2659	0.2148
Mercury	25841-02-13 01:26 G	11159334.46	11159334.56	11159334.66	0.2672	0.1462
Mercury	25858-08-09 16:48 G	11165721.12	11165721.20	11165721.29	0.2660	0.2105
Mercury	25861-02-08 16:19 G	11166635.08	11166635.18	11166635.28	0.2671	0.1276
Mercury	25871-08-12 19:41 G	11170472.17	11170472.32	11170472.46	0.2660	0.0305
Mercury	25874-02-11 11:17 G	11171385.86	11171385.97	11171386.09	0.2672	0.0245

Mercury	25884-08-14 21:50 G	11175223.38	11175223.41	11175223.43	0.2659	0.2602
Mercury	25887-02-14 06:29 G	11176136.68	11176136.77	11176136.85	0.2672	0.1784
Mercury	25894-02-07 02:38 G	11178686.56	11178686.61	11178686.65	0.2671	0.2449
Mercury	25904-08-10 23:02 G	11182523.34	11182523.46	11182523.57	0.2660	0.1617
Mercury	25907-02-10 21:21 G	11183437.28	11183437.39	11183437.50	0.2671	0.0964
Mercury	25917-08-14 01:41 G	11187274.43	11187274.57	11187274.70	0.2660	0.0771
Mercury	25920-02-13 16:19 G	11188188.07	11188188.18	11188188.29	0.2672	0.0553
Venus	25924-07-10 07:12 G	11189796.65	11189796.80	11189796.94	0.2664	0.1022
Mercury	25933-02-15 11:31 G	11192938.91	11192938.98	11192939.05	0.2672	0.2108
Mercury	25940-02-09 07:26 G	11195488.74	11195488.81	11195488.88	0.2671	0.2142
Mercury	25950-08-12 05:02 G	11199325.58	11199325.71	11199325.84	0.2660	0.1130
Mercury	25953-02-11 02:24 G	11200239.48	11200239.60	11200239.71	0.2671	0.0658
Mercury	25963-08-15 07:41 G	11204076.69	11204076.82	11204076.95	0.2660	0.1244
Mercury	25966-02-13 21:21 G	11204990.28	11204990.39	11204990.50	0.2671	0.0872
Mercury	25979-02-16 16:33 G	11209741.14	11209741.19	11209741.23	0.2672	0.2431
Mercury	25986-02-09 12:29 G	11212290.94	11212291.02	11212291.10	0.2671	0.1836
Mercury	25996-08-12 11:02 G	11216127.82	11216127.96	11216128.10	0.2660	0.0650
Mercury	25999-02-12 07:12 G	11217041.69	11217041.80	11217041.92	0.2671	0.0346

27TH MILLENNIUM CE

This is a list of transits visible from Earth in the 27th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	26009-08-15 13:41 G		11220878.96	11220879.07	11220879.18	0.2660	0.1707	

Mercury	26012-02-15 02:24 G	11221792.49	11221792.60	11221792.70	0.2671	0.1193
Mercury	26029-08-10 14:09 G	11228179.07	11228179.09	11228179.12	0.2661	0.2607
Venus	26030-01-11 14:53 G	11228332.99	11228333.12	11228333.25	0.2667	0.1523
Mercury	26032-02-10 17:17 G	11229093.13	11229093.22	11229093.32	0.2671	0.1527
Venus	26038-01-09 06:29 G	11231252.68	11231252.77	11231252.86	0.2667	0.2205
Mercury	26042-08-13 17:17 G	11232930.07	11232930.22	11232930.36	0.2660	0.0180
Mercury	26045-02-12 12:14 G	11233843.89	11233844.01	11233844.13	0.2671	0.0030
Mercury	26055-08-16 19:41 G	11237681.23	11237681.32	11237681.40	0.2660	0.2169
Mercury	26058-02-15 07:12 G	11238594.71	11238594.80	11238594.90	0.2671	0.1510
Mercury	26075-08-11 20:24 G	11244981.26	11244981.35	11244981.43	0.2660	0.2116
Mercury	26078-02-10 22:19 G	11245895.33	11245895.43	11245895.53	0.2671	0.1215
Mercury	26088-08-13 23:17 G	11249732.32	11249732.47	11249732.61	0.2660	0.0313
Mercury	26091-02-13 17:17 G	11250646.10	11250646.22	11250646.33	0.2671	0.0294
Mercury	26101-08-18 01:41 G	11254483.55	11254483.57	11254483.58	0.2660	0.2629
Mercury	26104-02-17 12:14 G	11255396.93	11255397.01	11255397.10	0.2671	0.1832
Mercury	26111-02-10 08:38 G	11257946.81	11257946.86	11257946.90	0.2671	0.2386
Mercury	26121-08-13 02:24 G	11261783.49	11261783.60	11261783.72	0.2661	0.1624
Mercury	26124-02-13 03:21 G	11262697.53	11262697.64	11262697.75	0.2671	0.0907
Mercury	26134-08-16 05:17 G	11266534.58	11266534.72	11266534.86	0.2660	0.0779
Mercury	26137-02-14 22:19 G	11267448.31	11267448.43	11267448.54	0.2671	0.0611
Mercury	26150-02-17 17:17 G	11272199.16	11272199.22	11272199.29	0.2671	0.2156
Mercury	26157-02-10 13:26 G	11274748.99	11274749.06	11274749.13	0.2671	0.2077
Venus	26159-07-14 16:48 G	11275633.18	11275633.20	11275633.23	0.2664	0.2626
Venus	26167-07-12 07:55 G	11278552.68	11278552.83	11278552.97	0.2665	0.1183
Mercury	26167-08-14 08:24 G	11278585.72	11278585.85	11278585.99	0.2661	0.1142
Mercury	26170-02-13 08:09 G	11279499.73	11279499.84	11279499.96	0.2671	0.0603
Mercury	26180-08-16 11:17 G	11283336.84	11283336.97	11283337.10	0.2660	0.1251
Mercury	26183-02-16 03:07 G	11284250.52	11284250.63	11284250.74	0.2671	0.0927
Mercury	26196-02-18 22:19 G	11289001.39	11289001.43	11289001.47	0.2671	0.2477
Mercury	26203-02-12 18:29 G	11291551.18	11291551.27	11291551.35	0.2671	0.1772

Mercury	26213-08-15 14:38 G	11295387.97	11295388.11	11295388.25	0.2661	0.0648
Mercury	26216-02-15 13:12 G	11296301.94	11296302.05	11296302.17	0.2671	0.0285
Mercury	26226-08-18 17:17 G	11300139.11	11300139.22	11300139.33	0.2660	0.1720
Mercury	26229-02-17 08:09 G	11301052.74	11301052.84	11301052.95	0.2671	0.1242
Mercury	26246-08-13 17:45 G	11307439.21	11307439.24	11307439.26	0.2661	0.2621
Mercury	26249-02-12 23:17 G	11308353.38	11308353.47	11308353.57	0.2670	0.1467
Mercury	26259-08-16 20:38 G	11312190.22	11312190.36	11312190.51	0.2661	0.0174
Mercury	26262-02-15 18:14 G	11313104.14	11313104.26	11313104.37	0.2671	0.0043
Mercury	26272-08-18 23:17 G	11316941.39	11316941.47	11316941.55	0.2660	0.2190
Venus	26273-01-13 16:19 G	11317089.05	11317089.18	11317089.31	0.2667	0.1416
Mercury	26275-02-18 13:12 G	11317854.96	11317855.05	11317855.14	0.2671	0.1560
Venus	26281-01-11 07:55 G	11320008.75	11320008.83	11320008.91	0.2666	0.2297
Mercury	26282-02-11 09:36 G	11320404.88	11320404.90	11320404.92	0.2670	0.2626
Mercury	26292-08-13 23:45 G	11324241.41	11324241.49	11324241.58	0.2661	0.2122
Mercury	26295-02-14 04:19 G	11325155.58	11325155.68	11325155.78	0.2670	0.1158
Mercury	26305-08-18 02:53 G	11328992.47	11328992.62	11328992.76	0.2661	0.0321
Mercury	26308-02-17 23:17 G	11329906.35	11329906.47	11329906.58	0.2671	0.0353
Mercury	26318-08-21 05:17 G	11333743.72	11333743.72	11333743.73	0.2660	0.2654
Mercury	26321-02-19 18:14 G	11334657.18	11334657.26	11334657.34	0.2671	0.1879
Mercury	26328-02-13 14:38 G	11337207.05	11337207.11	11337207.16	0.2670	0.2316
Mercury	26338-08-16 05:45 G	11341043.63	11341043.74	11341043.86	0.2661	0.1639
Mercury	26341-02-15 09:21 G	11341957.78	11341957.89	11341958.00	0.2670	0.0853
Mercury	26351-08-19 08:53 G	11345794.73	11345794.87	11345795.01	0.2661	0.0792
Mercury	26354-02-18 04:05 G	11346708.56	11346708.67	11346708.78	0.2671	0.0659
Mercury	26367-02-20 23:02 G	11351459.40	11351459.46	11351459.53	0.2671	0.2200
Mercury	26374-02-13 19:26 G	11354009.24	11354009.31	11354009.39	0.2670	0.2014
Mercury	26384-08-16 12:00 G	11357845.87	11357846.00	11357846.13	0.2661	0.1144
Mercury	26387-02-16 14:24 G	11358759.98	11358760.10	11358760.21	0.2670	0.0543
Mercury	26397-08-19 14:53 G	11362596.99	11362597.12	11362597.25	0.2661	0.1263
Mercury	26400-02-19 09:07 G	11363510.77	11363510.88	11363510.99	0.2671	0.0976

Venus	26402-07-16 17:31 G	11364389.17	11364389.23	11364389.29	0.2665	0.2447
Venus	26410-07-14 08:24 G	11367308.71	11367308.85	11367308.98	0.2665	0.1376
Mercury	26413-02-21 04:05 G	11368261.64	11368261.67	11368261.71	0.2671	0.2518
Mercury	26420-02-15 00:29 G	11370811.43	11370811.52	11370811.61	0.2670	0.1707
Mercury	26430-08-17 18:00 G	11374648.11	11374648.25	11374648.39	0.2661	0.0664
Mercury	26433-02-16 19:12 G	11375562.19	11375562.30	11375562.42	0.2670	0.0226
Mercury	26443-08-20 20:53 G	11379399.26	11379399.37	11379399.48	0.2661	0.1734
Mercury	26446-02-19 14:09 G	11380312.99	11380313.09	11380313.19	0.2671	0.1295
Mercury	26463-08-15 21:07 G	11386699.36	11386699.38	11386699.39	0.2662	0.2640
Mercury	26466-02-15 05:17 G	11387613.63	11387613.72	11387613.82	0.2670	0.1408
Mercury	26476-08-18 00:14 G	11391450.36	11391450.51	11391450.65	0.2661	0.0170
Mercury	26479-02-18 00:14 G	11392364.39	11392364.51	11392364.62	0.2670	0.0099
Mercury	26489-08-21 02:53 G	11396201.54	11396201.62	11396201.70	0.2661	0.2205
Mercury	26492-02-20 19:12 G	11397115.20	11397115.30	11397115.39	0.2670	0.1612
Mercury	26499-02-13 15:36 G	11399665.12	11399665.15	11399665.18	0.2670	0.2556
Mercury	26509-08-17 03:07 G	11403501.55	11403501.63	11403501.72	0.2661	0.2141
Mercury	26512-02-17 10:19 G	11404415.83	11404415.93	11404416.04	0.2670	0.1096
Venus	26516-01-16 17:45 G	11405845.10	11405845.24	11405845.38	0.2666	0.1312
Mercury	26522-08-20 06:14 G	11408252.62	11408252.76	11408252.91	0.2661	0.0321
Venus	26524-01-14 09:36 G	11408764.83	11408764.90	11408764.97	0.2666	0.2383
Mercury	26525-02-19 05:02 G	11409166.60	11409166.71	11409166.83	0.2670	0.0407
Mercury	26538-02-22 00:00 G	11413917.42	11413917.50	11413917.58	0.2670	0.1928
Mercury	26545-02-14 20:38 G	11416467.30	11416467.36	11416467.42	0.2670	0.2255
Mercury	26555-08-18 09:21 G	11420303.77	11420303.89	11420304.00	0.2662	0.1646
Mercury	26558-02-17 15:21 G	11421218.03	11421218.14	11421218.25	0.2670	0.0786
Mercury	26568-08-20 12:29 G	11425054.88	11425055.02	11425055.16	0.2661	0.0801
Mercury	26571-02-20 10:05 G	11425968.81	11425968.92	11425969.03	0.2670	0.0715
Mercury	26584-02-23 05:02 G	11430719.65	11430719.71	11430719.77	0.2670	0.2243
Mercury	26591-02-16 01:41 G	11433269.49	11433269.57	11433269.64	0.2670	0.1953
Mercury	26601-08-19 15:21 G	11437106.01	11437106.14	11437106.27	0.2662	0.1155

Mercury	26604-02-19 20:09 G	11438020.23	11438020.34	11438020.46	0.2670	0.0486
Mercury	26614-08-22 18:29 G	11441857.14	11441857.27	11441857.40	0.2661	0.1272
Mercury	26617-02-21 15:07 G	11442771.02	11442771.13	11442771.23	0.2670	0.1028
Mercury	26630-02-24 10:05 G	11447521.89	11447521.92	11447521.95	0.2670	0.2566
Mercury	26637-02-17 06:29 G	11450071.68	11450071.77	11450071.86	0.2670	0.1648
Venus	26645-07-18 18:14 G	11453145.18	11453145.26	11453145.34	0.2665	0.2281
Mercury	26647-08-20 21:36 G	11453908.26	11453908.40	11453908.54	0.2662	0.0655
Mercury	26650-02-20 01:12 G	11454822.43	11454822.55	11454822.66	0.2670	0.0169
Venus	26653-07-16 09:07 G	11456064.75	11456064.88	11456065.01	0.2666	0.1550
Mercury	26660-08-23 00:29 G	11458659.42	11458659.52	11458659.63	0.2661	0.1753
Mercury	26663-02-22 20:09 G	11459573.24	11459573.34	11459573.43	0.2670	0.1344
Mercury	26683-02-18 11:31 G	11466873.88	11466873.98	11466874.08	0.2670	0.1338
Mercury	26693-08-21 03:36 G	11470710.51	11470710.65	11470710.80	0.2662	0.0184
Mercury	26696-02-21 06:14 G	11471624.64	11471624.76	11471624.87	0.2670	0.0162
Mercury	26706-08-25 06:43 G	11475461.70	11475461.78	11475461.85	0.2661	0.2228
Mercury	26709-02-24 00:57 G	11476375.45	11476375.54	11476375.63	0.2670	0.1657
Mercury	26716-02-17 21:50 G	11478925.37	11478925.41	11478925.45	0.2669	0.2488
Mercury	26726-08-20 06:29 G	11482761.69	11482761.77	11482761.85	0.2662	0.2167
Mercury	26729-02-19 16:19 G	11483676.08	11483676.18	11483676.29	0.2670	0.1034
Mercury	26739-08-23 09:50 G	11487512.76	11487512.91	11487513.05	0.2662	0.0316
Mercury	26742-02-22 11:02 G	11488426.85	11488426.96	11488427.08	0.2670	0.0466
Mercury	26755-02-25 06:00 G	11493177.68	11493177.75	11493177.83	0.2670	0.1975
Venus	26759-01-18 19:26 G	11494601.18	11494601.31	11494601.45	0.2665	0.1250
Mercury	26762-02-18 02:38 G	11495727.55	11495727.61	11495727.68	0.2669	0.2189
Venus	26767-01-16 11:17 G	11497520.91	11497520.97	11497521.03	0.2665	0.2455
Mercury	26772-08-20 12:43 G	11499563.91	11499564.03	11499564.14	0.2662	0.1663
Mercury	26775-02-20 21:21 G	11500478.28	11500478.39	11500478.50	0.2669	0.0728
Mercury	26785-08-23 15:50 G	11504315.02	11504315.16	11504315.30	0.2662	0.0791
Mercury	26788-02-23 16:05 G	11505229.06	11505229.17	11505229.28	0.2670	0.0766
Mercury	26801-02-25 11:02 G	11509979.90	11509979.96	11509980.02	0.2670	0.2296

Mercury	26808-02-19 07:41 G	11512529.74	11512529.82	11512529.90	0.2669	0.1889
Mercury	26818-08-21 18:57 G	11516366.15	11516366.29	11516366.42	0.2662	0.1160
Mercury	26821-02-21 02:09 G	11517280.48	11517280.59	11517280.71	0.2669	0.0430
Mercury	26831-08-24 22:05 G	11521117.29	11521117.42	11521117.54	0.2662	0.1283
Mercury	26834-02-23 21:07 G	11522031.27	11522031.38	11522031.48	0.2669	0.1080
Mercury	26847-02-26 16:05 G	11526782.15	11526782.17	11526782.19	0.2670	0.2610
Mercury	26854-02-19 12:29 G	11529331.93	11529332.02	11529332.11	0.2669	0.1584
Mercury	26864-08-22 00:57 G	11533168.40	11533168.54	11533168.68	0.2662	0.0671
Mercury	26867-02-22 07:12 G	11534082.69	11534082.80	11534082.91	0.2669	0.0114
Mercury	26877-08-25 04:05 G	11537919.56	11537919.67	11537919.78	0.2662	0.1760
Mercury	26880-02-25 01:55 G	11538833.49	11538833.58	11538833.68	0.2669	0.1392
Venus	26888-07-19 18:43 G	11541901.18	11541901.28	11541901.38	0.2666	0.2088
Venus	26896-07-17 09:21 G	11544820.77	11544820.89	11544821.01	0.2666	0.1750
Mercury	26900-02-20 17:31 G	11546134.13	11546134.23	11546134.33	0.2669	0.1284
Mercury	26910-08-24 07:12 G	11549970.65	11549970.80	11549970.94	0.2662	0.0191
Mercury	26913-02-23 12:14 G	11550884.89	11550885.01	11550885.12	0.2669	0.0210
Mercury	26923-08-27 10:05 G	11554721.85	11554721.92	11554722.00	0.2662	0.2232
Mercury	26926-02-26 06:57 G	11555635.70	11555635.79	11555635.88	0.2669	0.1706
Mercury	26933-02-19 03:50 G	11558185.62	11558185.66	11558185.71	0.2669	0.2425
Mercury	26943-08-22 09:50 G	11562021.82	11562021.91	11562021.99	0.2662	0.2182
Mercury	26946-02-21 22:19 G	11562936.33	11562936.43	11562936.54	0.2669	0.0981
Mercury	26956-08-24 13:12 G	11566772.90	11566773.05	11566773.19	0.2662	0.0304
Mercury	26959-02-24 17:02 G	11567687.10	11567687.21	11567687.33	0.2669	0.0507
Mercury	26972-02-27 12:00 G	11572437.92	11572438.00	11572438.07	0.2669	0.2021
Mercury	26979-02-20 08:53 G	11574987.80	11574987.87	11574987.93	0.2669	0.2126
Mercury	26989-08-22 15:50 G	11578824.05	11578824.16	11578824.28	0.2663	0.1686
Mercury	26992-02-23 03:21 G	11579738.53	11579738.64	11579738.75	0.2669	0.0671

28TH MILLENNIUM CE

This is a list of transits visible from Earth in the 28th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	27002-01-20 21:07	G	11583357.23	11583357.38	11583357.52	0.2665	0.1143	
Mercury	27002-08-26 19:26	G	11583575.17	11583575.31	11583575.45	0.2662	0.0801	
Mercury	27005-02-25 22:05	G	11584489.31	11584489.42	11584489.53	0.2669	0.0817	
Venus	27010-01-18 12:57	G	11586276.99	11586277.04	11586277.08	0.2665	0.2532	
Mercury	27018-02-28 16:48	G	11589240.15	11589240.20	11589240.26	0.2669	0.2336	
Mercury	27025-02-21 13:41	G	11591789.99	11591790.07	11591790.15	0.2669	0.1823	
Mercury	27035-08-24 22:05	G	11595626.29	11595626.42	11595626.55	0.2663	0.1190	
Mercury	27038-02-24 08:24	G	11596540.73	11596540.85	11596540.96	0.2669	0.0373	
Mercury	27048-08-27 01:26	G	11600377.43	11600377.56	11600377.69	0.2662	0.1274	
Mercury	27051-02-27 03:07	G	11601291.52	11601291.63	11601291.73	0.2669	0.1131	
Mercury	27064-02-29 21:50	G	11606042.40	11606042.41	11606042.42	0.2669	0.2653	
Mercury	27071-02-22 18:43	G	11608592.18	11608592.28	11608592.37	0.2669	0.1526	
Mercury	27081-08-25 04:19	G	11612428.53	11612428.68	11612428.82	0.2663	0.0696	
Mercury	27084-02-25 13:12	G	11613342.94	11613343.05	11613343.17	0.2669	0.0073	
Mercury	27094-08-28 07:26	G	11617179.70	11617179.81	11617179.92	0.2662	0.1757	
Mercury	27097-02-27 07:55	G	11618093.74	11618093.83	11618093.93	0.2669	0.1444	
Mercury	27104-02-22 05:02	G	11620643.71	11620643.71	11620643.71	0.2668	0.2661	
Mercury	27117-02-23 23:31	G	11625394.38	11625394.48	11625394.58	0.2669	0.1222	
Mercury	27127-08-27 10:19	G	11629230.79	11629230.93	11629231.08	0.2663	0.0205	
Mercury	27130-02-26 18:14	G	11630145.14	11630145.26	11630145.37	0.2669	0.0256	
Venus	27131-07-23 18:57	G	11630657.18	11630657.29	11630657.41	0.2667	0.1884	
Venus	27139-07-21 09:50	G	11633576.80	11633576.91	11633577.01	0.2667	0.1964	

Mercury	27140-08-29 13:41 G	11633981.99	11633982.07	11633982.14	0.2662	0.2232
Mercury	27143-03-01 12:57 G	11634895.95	11634896.04	11634896.12	0.2669	0.1753
Mercury	27150-02-22 09:50 G	11637445.86	11637445.91	11637445.96	0.2668	0.2367
Mercury	27160-08-24 12:57 G	11641281.96	11641282.04	11641282.12	0.2663	0.2214
Mercury	27163-02-25 04:33 G	11642196.58	11642196.69	11642196.79	0.2669	0.0924
Mercury	27173-08-27 16:33 G	11646033.05	11646033.19	11646033.34	0.2663	0.0306
Mercury	27176-02-27 23:02 G	11646947.35	11646947.46	11646947.58	0.2669	0.0563
Mercury	27189-03-01 18:00 G	11651698.17	11651698.25	11651698.32	0.2669	0.2068
Mercury	27196-02-23 14:53 G	11654248.05	11654248.12	11654248.19	0.2668	0.2065
Mercury	27206-08-25 19:12 G	11658084.19	11658084.30	11658084.41	0.2663	0.1713
Mercury	27209-02-25 09:21 G	11658998.78	11658998.89	11658999.00	0.2668	0.0616
Mercury	27219-08-28 22:48 G	11662835.31	11662835.45	11662835.59	0.2663	0.0788
Mercury	27222-02-28 04:05 G	11663749.56	11663749.67	11663749.78	0.2669	0.0866
Mercury	27235-03-02 22:48 G	11668500.40	11668500.45	11668500.50	0.2669	0.2379
Mercury	27242-02-23 19:55 G	11671050.24	11671050.33	11671050.41	0.2668	0.1768
Venus	27245-01-21 22:48 G	11672113.31	11672113.45	11672113.59	0.2664	0.1075
Mercury	27252-08-26 01:26 G	11674886.42	11674886.56	11674886.69	0.2663	0.1214
Venus	27253-01-19 14:38 G	11675033.08	11675033.11	11675033.14	0.2664	0.2600
Mercury	27255-02-26 14:24 G	11675800.98	11675801.10	11675801.21	0.2668	0.0316
Mercury	27265-08-29 04:48 G	11679637.58	11679637.70	11679637.83	0.2663	0.1276
Mercury	27268-02-29 08:53 G	11680551.77	11680551.87	11680551.98	0.2668	0.1181
Mercury	27288-02-25 00:43 G	11687852.44	11687852.53	11687852.63	0.2668	0.1462
Mercury	27298-08-27 07:26 G	11691688.67	11691688.81	11691688.96	0.2663	0.0713
Mercury	27301-02-27 19:12 G	11692603.19	11692603.30	11692603.42	0.2668	0.0070
Mercury	27311-08-31 11:02 G	11696439.85	11696439.96	11696440.06	0.2663	0.1754
Mercury	27314-03-02 13:55 G	11697353.99	11697354.08	11697354.18	0.2669	0.1486
Mercury	27321-02-23 11:17 G	11699903.94	11699903.97	11699903.99	0.2668	0.2599
Mercury	27334-02-26 05:31 G	11704654.63	11704654.73	11704654.84	0.2668	0.1166
Mercury	27344-08-28 13:41 G	11708490.92	11708491.07	11708491.22	0.2663	0.0217
Mercury	27347-03-01 00:14 G	11709405.39	11709405.51	11709405.62	0.2668	0.0307

Mercury	27357-08-31 17:02 G	11713242.13	11713242.21	11713242.29	0.2663	0.2239
Mercury	27360-03-02 18:57 G	11714156.21	11714156.29	11714156.37	0.2668	0.1801
Mercury	27367-02-24 16:05 G	11716706.12	11716706.17	11716706.23	0.2668	0.2299
Venus	27374-07-24 19:26 G	11719413.19	11719413.31	11719413.43	0.2667	0.1690
Mercury	27377-08-26 16:05 G	11720542.09	11720542.17	11720542.25	0.2664	0.2253
Mercury	27380-02-27 10:33 G	11721456.83	11721456.94	11721457.05	0.2668	0.0860
Venus	27382-07-22 10:05 G	11722332.83	11722332.92	11722333.01	0.2667	0.2173
Mercury	27390-08-29 19:55 G	11725293.18	11725293.33	11725293.47	0.2663	0.0285
Mercury	27393-03-01 05:02 G	11726207.60	11726207.71	11726207.82	0.2668	0.0614
Mercury	27406-03-04 23:45 G	11730958.43	11730958.49	11730958.56	0.2668	0.2114
Mercury	27413-02-25 21:07 G	11733508.30	11733508.38	11733508.45	0.2668	0.2005
Mercury	27423-08-28 22:19 G	11737344.32	11737344.43	11737344.54	0.2664	0.1743
Mercury	27426-02-28 15:21 G	11738259.03	11738259.14	11738259.26	0.2668	0.0565
Mercury	27436-08-31 02:09 G	11742095.45	11742095.59	11742095.73	0.2663	0.0778
Mercury	27439-03-03 10:05 G	11743009.81	11743009.92	11743010.03	0.2668	0.0919
Mercury	27452-03-05 04:48 G	11747760.66	11747760.70	11747760.75	0.2668	0.2426
Mercury	27459-02-27 01:55 G	11750310.49	11750310.58	11750310.67	0.2668	0.1704
Mercury	27469-08-29 04:33 G	11754146.56	11754146.69	11754146.82	0.2663	0.1234
Mercury	27472-02-29 20:24 G	11755061.24	11755061.35	11755061.46	0.2668	0.0255
Mercury	27482-09-01 08:09 G	11758897.71	11758897.84	11758897.97	0.2663	0.1263
Mercury	27485-03-03 15:07 G	11759812.02	11759812.13	11759812.23	0.2668	0.1230
Venus	27488-01-25 00:29 G	11760869.37	11760869.52	11760869.67	0.2664	0.0991
Mercury	27505-02-28 06:43 G	11767112.69	11767112.78	11767112.88	0.2668	0.1409
Mercury	27515-08-31 10:48 G	11770948.81	11770948.95	11770949.09	0.2664	0.0733
Mercury	27518-03-03 01:12 G	11771863.44	11771863.55	11771863.67	0.2668	0.0091
Mercury	27528-09-02 14:24 G	11775699.99	11775700.10	11775700.21	0.2663	0.1755
Mercury	27531-03-05 19:55 G	11776614.24	11776614.33	11776614.43	0.2668	0.1537
Mercury	27538-02-26 17:17 G	11779164.19	11779164.22	11779164.26	0.2668	0.2533
Mercury	27551-03-01 11:45 G	11783914.89	11783914.99	11783915.09	0.2668	0.1106
Mercury	27561-08-31 16:48 G	11787751.06	11787751.20	11787751.35	0.2664	0.0251

Mercury	27564-03-03 06:14 G	11788665.65	11788665.76	11788665.87	0.2668	0.0352
Mercury	27574-09-03 20:24 G	11792502.27	11792502.35	11792502.43	0.2663	0.2236
Mercury	27577-03-06 00:57 G	11793416.46	11793416.54	11793416.62	0.2668	0.1844
Mercury	27584-02-27 22:19 G	11795966.37	11795966.43	11795966.49	0.2667	0.2238
Mercury	27594-08-29 19:12 G	11799802.23	11799802.30	11799802.37	0.2664	0.2294
Mercury	27597-03-01 16:33 G	11800717.08	11800717.19	11800717.30	0.2668	0.0804
Mercury	27607-09-01 23:02 G	11804553.32	11804553.46	11804553.61	0.2664	0.0271
Mercury	27610-03-04 11:17 G	11805467.86	11805467.97	11805468.08	0.2668	0.0667
Venus	27617-07-26 19:26 G	11808169.18	11808169.31	11808169.45	0.2668	0.1443
Mercury	27623-03-07 05:45 G	11810218.68	11810218.74	11810218.81	0.2668	0.2156
Venus	27625-07-24 10:05 G	11811088.86	11811088.92	11811088.99	0.2668	0.2408
Mercury	27630-02-28 03:07 G	11812768.55	11812768.63	11812768.71	0.2667	0.1940
Mercury	27640-08-30 01:26 G	11816604.45	11816604.56	11816604.67	0.2664	0.1782
Mercury	27643-03-02 21:36 G	11817519.29	11817519.40	11817519.51	0.2667	0.0502
Mercury	27653-09-02 05:17 G	11821355.58	11821355.72	11821355.86	0.2664	0.0754
Mercury	27656-03-04 16:05 G	11822270.07	11822270.17	11822270.28	0.2668	0.0971
Mercury	27669-03-07 10:48 G	11827020.91	11827020.95	11827020.99	0.2668	0.2467
Mercury	27676-02-29 07:55 G	11829570.75	11829570.83	11829570.92	0.2667	0.1649
Mercury	27686-08-31 07:41 G	11833406.69	11833406.82	11833406.95	0.2664	0.1271
Mercury	27689-03-03 02:24 G	11834321.49	11834321.60	11834321.72	0.2667	0.0206
Mercury	27699-09-03 11:31 G	11838157.85	11838157.98	11838158.11	0.2664	0.1248
Mercury	27702-03-06 21:07 G	11839072.28	11839072.38	11839072.48	0.2668	0.1277
Mercury	27722-03-02 12:57 G	11846372.94	11846373.04	11846373.14	0.2667	0.1345
Venus	27731-01-27 02:09 G	11849625.44	11849625.59	11849625.74	0.2663	0.0910
Mercury	27732-09-01 13:55 G	11850208.94	11850209.08	11850209.22	0.2664	0.0765
Mercury	27735-03-05 07:26 G	11851123.69	11851123.81	11851123.92	0.2667	0.0108
Mercury	27745-09-04 17:31 G	11854960.12	11854960.23	11854960.34	0.2664	0.1739
Mercury	27748-03-07 01:55 G	11855874.49	11855874.58	11855874.67	0.2668	0.1582
Mercury	27755-02-28 23:31 G	11858424.44	11858424.48	11858424.52	0.2667	0.2473
Mercury	27768-03-02 17:45 G	11863175.14	11863175.24	11863175.35	0.2667	0.1049

Mercury	27778-09-02 20:09 G	11867011.19	11867011.34	11867011.49	0.2664	0.0259
Mercury	27781-03-05 12:14 G	11867925.90	11867926.01	11867926.13	0.2667	0.0417
Mercury	27791-09-05 23:45 G	11871762.41	11871762.49	11871762.57	0.2664	0.2230
Mercury	27794-03-08 06:57 G	11872676.71	11872676.79	11872676.87	0.2667	0.1891
Mercury	27801-03-02 04:19 G	11875226.62	11875226.68	11875226.74	0.2667	0.2179
Mercury	27811-09-01 22:19 G	11879062.36	11879062.43	11879062.50	0.2664	0.2330
Mercury	27814-03-04 22:48 G	11879977.34	11879977.45	11879977.56	0.2667	0.0750
Mercury	27824-09-04 02:24 G	11883813.45	11883813.60	11883813.74	0.2664	0.0247
Mercury	27827-03-07 17:17 G	11884728.11	11884728.22	11884728.33	0.2667	0.0712
Mercury	27840-03-09 11:45 G	11889478.93	11889478.99	11889479.06	0.2667	0.2201
Mercury	27847-03-03 09:21 G	11892028.81	11892028.89	11892028.97	0.2667	0.1886
Mercury	27857-09-02 04:33 G	11895864.58	11895864.69	11895864.80	0.2665	0.1815
Mercury	27860-03-05 03:36 G	11896779.54	11896779.65	11896779.76	0.2667	0.0451
Venus	27860-07-28 19:55 G	11896925.19	11896925.33	11896925.47	0.2668	0.1261
Venus	27868-07-26 10:19 G	11899844.91	11899844.93	11899844.96	0.2668	0.2626
Mercury	27870-09-05 08:38 G	11900615.71	11900615.86	11900616.00	0.2664	0.0743
Mercury	27873-03-07 22:05 G	11901530.32	11901530.42	11901530.53	0.2667	0.1016
Mercury	27886-03-10 16:48 G	11906281.16	11906281.20	11906281.24	0.2667	0.2509
Mercury	27893-03-03 14:09 G	11908831.00	11908831.09	11908831.18	0.2667	0.1581
Mercury	27903-09-04 10:48 G	11912666.82	11912666.95	11912667.08	0.2664	0.1310
Mercury	27906-03-07 08:38 G	11913581.74	11913581.86	11913581.97	0.2667	0.0156
Mercury	27916-09-06 14:38 G	11917417.98	11917418.11	11917418.24	0.2664	0.1235
Mercury	27919-03-10 03:07 G	11918332.53	11918332.63	11918332.73	0.2667	0.1320
Mercury	27939-03-05 19:12 G	11925633.20	11925633.30	11925633.39	0.2667	0.1291
Mercury	27949-09-04 17:02 G	11929469.07	11929469.21	11929469.35	0.2665	0.0803
Mercury	27952-03-07 13:26 G	11930383.95	11930384.06	11930384.18	0.2667	0.0164
Mercury	27962-09-07 20:53 G	11934220.26	11934220.37	11934220.48	0.2664	0.1726
Mercury	27965-03-10 07:55 G	11935134.74	11935134.83	11935134.92	0.2667	0.1634
Mercury	27972-03-03 05:45 G	11937684.69	11937684.74	11937684.78	0.2666	0.2411
Venus	27974-01-29 04:05 G	11938381.52	11938381.67	11938381.82	0.2663	0.0876

Mercury	27985-03-06 00:00 G	11942435.39	11942435.50	11942435.60	0.2667	0.0988
Mercury	27995-09-05 23:17 G	11946271.32	11946271.47	11946271.62	0.2665	0.0300
Mercury	27998-03-08 18:29 G	11947186.15	11947186.27	11947186.38	0.2667	0.0468

29TH MILLENNIUM CE

This is a list of transits visible from Earth in the 29th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	28008-09-08 03:07 G		11951022.55	11951022.63	11951022.71	0.2664	0.2212	
Mercury	28011-03-11 12:57 G		11951936.96	11951937.04	11951937.12	0.2667	0.1940	
Mercury	28018-03-04 10:33 G		11954486.87	11954486.94	11954487.01	0.2666	0.2116	
Mercury	28028-09-03 01:12 G		11958322.49	11958322.55	11958322.62	0.2665	0.2376	
Mercury	28031-03-07 04:48 G		11959237.59	11959237.70	11959237.81	0.2667	0.0695	
Mercury	28041-09-06 05:31 G		11963073.58	11963073.73	11963073.88	0.2665	0.0216	
Mercury	28044-03-08 23:17 G		11963988.36	11963988.47	11963988.58	0.2667	0.0763	
Mercury	28057-03-11 18:00 G		11968739.19	11968739.25	11968739.31	0.2667	0.2248	
Mercury	28064-03-04 15:21 G		11971289.06	11971289.14	11971289.23	0.2666	0.1821	
Mercury	28074-09-04 07:26 G		11975124.71	11975124.81	11975124.92	0.2665	0.1860	
Mercury	28077-03-07 09:50 G		11976039.79	11976039.91	11976040.02	0.2666	0.0397	
Mercury	28087-09-07 11:45 G		11979875.85	11979875.99	11979876.13	0.2665	0.0717	
Mercury	28090-03-10 04:19 G		11980790.57	11980790.68	11980790.78	0.2667	0.1069	
Mercury	28103-03-13 22:48 G		11985541.42	11985541.45	11985541.48	0.2667	0.2555	
Venus	28103-07-31 19:55 G		11985681.18	11985681.33	11985681.48	0.2669	0.1002	
Mercury	28110-03-06 20:24 G		11988091.26	11988091.35	11988091.44	0.2666	0.1529	

Mercury	28120-09-05 13:41 G	11991926.95	11991927.07	11991927.20	0.2665	0.1351
Mercury	28123-03-09 14:38 G	11992842.00	11992842.11	11992842.22	0.2666	0.0092
Mercury	28133-09-08 18:00 G	11996678.12	11996678.25	11996678.38	0.2665	0.1218
Mercury	28136-03-11 09:07 G	11997592.78	11997592.88	11997592.98	0.2667	0.1375
Mercury	28143-03-05 06:57 G	12000142.78	12000142.79	12000142.80	0.2666	0.2640
Mercury	28156-03-07 01:12 G	12004893.45	12004893.55	12004893.65	0.2666	0.1230
Mercury	28166-09-06 20:09 G	12008729.20	12008729.34	12008729.48	0.2665	0.0834
Mercury	28169-03-09 19:41 G	12009644.20	12009644.32	12009644.43	0.2666	0.0235
Mercury	28179-09-10 00:00 G	12013480.39	12013480.50	12013480.62	0.2665	0.1709
Mercury	28182-03-12 14:09 G	12014395.00	12014395.09	12014395.17	0.2667	0.1679
Mercury	28189-03-05 12:00 G	12016944.94	12016945.00	12016945.05	0.2666	0.2346
Mercury	28202-03-09 06:00 G	12021695.65	12021695.75	12021695.86	0.2666	0.0939
Mercury	28212-09-08 02:24 G	12025531.45	12025531.60	12025531.75	0.2665	0.0320
Mercury	28215-03-12 00:29 G	12026446.41	12026446.52	12026446.63	0.2666	0.0511
Venus	28217-01-31 06:00 G	12027137.60	12027137.75	12027137.90	0.2662	0.0800
Mercury	28225-09-11 06:14 G	12030282.68	12030282.76	12030282.84	0.2665	0.2208
Mercury	28228-03-13 18:57 G	12031197.22	12031197.29	12031197.37	0.2667	0.1985
Mercury	28235-03-07 16:48 G	12033747.13	12033747.20	12033747.27	0.2666	0.2052
Mercury	28245-09-06 04:05 G	12037582.62	12037582.67	12037582.73	0.2665	0.2430
Mercury	28248-03-09 11:02 G	12038497.85	12038497.96	12038498.07	0.2666	0.0631
Mercury	28258-09-09 08:38 G	12042333.71	12042333.86	12042334.01	0.2665	0.0188
Mercury	28261-03-12 05:31 G	12043248.62	12043248.73	12043248.83	0.2666	0.0820
Mercury	28274-03-15 00:00 G	12047999.44	12047999.50	12047999.55	0.2667	0.2291
Mercury	28281-03-07 21:36 G	12050549.32	12050549.40	12050549.48	0.2666	0.1759
Mercury	28291-09-07 10:33 G	12054384.83	12054384.94	12054385.04	0.2666	0.1916
Mercury	28294-03-10 15:50 G	12055300.05	12055300.16	12055300.27	0.2666	0.0339
Mercury	28304-09-10 14:53 G	12059135.97	12059136.12	12059136.26	0.2665	0.0688
Mercury	28307-03-14 10:19 G	12060050.83	12060050.93	12060051.03	0.2666	0.1123
Mercury	28320-03-16 04:48 G	12064801.68	12064801.70	12064801.73	0.2666	0.2603
Mercury	28327-03-10 02:24 G	12067351.51	12067351.60	12067351.70	0.2666	0.1469

Mercury	28337-09-08 16:48 G	12071187.07	12071187.20	12071187.33	0.2666	0.1385
Mercury	28340-03-11 20:53 G	12072102.25	12072102.37	12072102.48	0.2666	0.0062
Venus	28346-08-02 20:24 G	12074437.19	12074437.35	12074437.50	0.2669	0.0816
Mercury	28350-09-11 21:07 G	12075938.24	12075938.38	12075938.51	0.2665	0.1187
Mercury	28353-03-14 15:21 G	12076853.04	12076853.14	12076853.23	0.2666	0.1426
Mercury	28360-03-07 13:12 G	12079403.02	12079403.05	12079403.08	0.2665	0.2576
Mercury	28373-03-10 07:26 G	12084153.71	12084153.81	12084153.91	0.2666	0.1173
Mercury	28383-09-09 23:02 G	12087989.32	12087989.46	12087989.61	0.2666	0.0871
Mercury	28386-03-13 01:41 G	12088904.46	12088904.57	12088904.68	0.2666	0.0266
Mercury	28396-09-12 03:21 G	12092740.53	12092740.64	12092740.75	0.2665	0.1698
Mercury	28399-03-15 20:09 G	12093655.25	12093655.34	12093655.43	0.2666	0.1728
Mercury	28406-03-08 18:00 G	12096205.20	12096205.25	12096205.31	0.2666	0.2287
Mercury	28419-03-11 12:14 G	12100955.91	12100956.01	12100956.12	0.2666	0.0874
Mercury	28429-09-10 05:17 G	12104791.58	12104791.72	12104791.87	0.2666	0.0367
Mercury	28432-03-13 06:43 G	12105706.67	12105706.78	12105706.89	0.2666	0.0571
Mercury	28442-09-13 09:36 G	12109542.82	12109542.90	12109542.98	0.2665	0.2192
Mercury	28445-03-16 00:57 G	12110457.47	12110457.54	12110457.62	0.2666	0.2031
Mercury	28452-03-08 23:02 G	12113007.38	12113007.46	12113007.53	0.2665	0.1994
Venus	28460-02-02 08:09 G	12115893.69	12115893.84	12115893.99	0.2662	0.0789
Mercury	28462-09-08 06:57 G	12116842.74	12116842.79	12116842.85	0.2666	0.2486
Mercury	28465-03-11 17:17 G	12117758.11	12117758.22	12117758.33	0.2666	0.0587
Mercury	28475-09-11 11:45 G	12121593.84	12121593.99	12121594.14	0.2666	0.0168
Mercury	28478-03-14 11:31 G	12122508.87	12122508.98	12122509.09	0.2666	0.0866
Mercury	28491-03-17 06:00 G	12127259.70	12127259.75	12127259.80	0.2666	0.2337
Mercury	28498-03-10 03:50 G	12129809.57	12129809.66	12129809.75	0.2665	0.1699
Mercury	28508-09-09 13:26 G	12133644.96	12133645.06	12133645.16	0.2666	0.1953
Mercury	28511-03-13 22:05 G	12134560.31	12134560.42	12134560.53	0.2666	0.0279
Mercury	28521-09-12 18:00 G	12138396.10	12138396.25	12138396.39	0.2666	0.0660
Mercury	28524-03-15 16:19 G	12139311.08	12139311.18	12139311.29	0.2666	0.1171
Mercury	28537-03-18 10:48 G	12144061.94	12144061.95	12144061.97	0.2666	0.2642

Mercury	28544-03-11 08:38 G	12146611.77	12146611.86	12146611.96	0.2665	0.1406
Mercury	28554-09-10 19:41 G	12150447.20	12150447.32	12150447.45	0.2666	0.1439
Mercury	28557-03-14 02:53 G	12151362.51	12151362.62	12151362.74	0.2666	0.0091
Mercury	28567-09-14 00:14 G	12155198.38	12155198.51	12155198.64	0.2666	0.1168
Mercury	28570-03-16 21:21 G	12156113.30	12156113.39	12156113.48	0.2666	0.1471
Mercury	28577-03-09 19:26 G	12158663.28	12158663.31	12158663.34	0.2665	0.2512
Venus	28589-08-03 20:09 G	12163193.18	12163193.34	12163193.50	0.2670	0.0559
Mercury	28590-03-12 13:41 G	12163413.97	12163414.07	12163414.17	0.2665	0.1111
Mercury	28600-09-12 01:55 G	12167249.44	12167249.58	12167249.73	0.2666	0.0924
Mercury	28603-03-16 07:55 G	12168164.72	12168164.83	12168164.94	0.2665	0.0323
Mercury	28613-09-15 06:29 G	12172000.65	12172000.77	12172000.88	0.2666	0.1662
Mercury	28616-03-18 02:09 G	12172915.51	12172915.59	12172915.68	0.2666	0.1774
Mercury	28623-03-12 00:14 G	12175465.45	12175465.51	12175465.57	0.2665	0.2224
Mercury	28636-03-13 18:29 G	12180216.16	12180216.27	12180216.38	0.2665	0.0816
Mercury	28646-09-13 08:24 G	12184051.70	12184051.85	12184052.00	0.2666	0.0405
Mercury	28649-03-16 12:43 G	12184966.92	12184967.03	12184967.14	0.2665	0.0618
Mercury	28659-09-16 12:43 G	12188802.94	12188803.03	12188803.11	0.2666	0.2166
Mercury	28662-03-19 07:12 G	12189717.73	12189717.80	12189717.87	0.2666	0.2079
Mercury	28669-03-12 05:17 G	12192267.64	12192267.72	12192267.79	0.2665	0.1935
Mercury	28679-09-11 10:05 G	12196102.87	12196102.92	12196102.96	0.2666	0.2532
Mercury	28682-03-14 23:17 G	12197018.36	12197018.47	12197018.58	0.2665	0.0528
Mercury	28692-09-13 14:38 G	12200853.96	12200854.11	12200854.26	0.2666	0.0127
Mercury	28695-03-17 17:45 G	12201769.13	12201769.24	12201769.34	0.2665	0.0922
Venus	28703-02-05 10:05 G	12204649.77	12204649.92	12204650.07	0.2661	0.0727
Mercury	28705-09-17 18:57 G	12205605.28	12205605.29	12205605.29	0.2666	0.2660
Mercury	28708-03-20 12:00 G	12206519.95	12206520.00	12206520.05	0.2666	0.2382
Mercury	28715-03-14 10:05 G	12209069.83	12209069.92	12209070.01	0.2665	0.1642
Mercury	28725-09-12 16:19 G	12212905.08	12212905.18	12212905.28	0.2666	0.2012
Mercury	28728-03-16 04:19 G	12213820.56	12213820.68	12213820.79	0.2665	0.0248
Mercury	28738-09-15 21:07 G	12217656.23	12217656.38	12217656.52	0.2666	0.0633

Mercury	28741-03-18 22:33 G	12218571.34	12218571.44	12218571.54	0.2665	0.1215
Mercury	28761-03-14 14:53 G	12225872.03	12225872.12	12225872.22	0.2665	0.1348
Mercury	28771-09-13 22:33 G	12229707.32	12229707.44	12229707.57	0.2666	0.1488
Mercury	28774-03-17 09:07 G	12230622.77	12230622.88	12230622.99	0.2665	0.0072
Mercury	28784-09-16 03:07 G	12234458.50	12234458.63	12234458.77	0.2666	0.1131
Mercury	28787-03-20 03:21 G	12235373.55	12235373.64	12235373.74	0.2665	0.1517
Mercury	28794-03-13 01:41 G	12237923.53	12237923.57	12237923.61	0.2665	0.2449
Mercury	28807-03-15 19:41 G	12242674.22	12242674.32	12242674.43	0.2665	0.1060
Mercury	28817-09-14 05:02 G	12246509.57	12246509.71	12246509.85	0.2666	0.0973
Mercury	28820-03-17 13:55 G	12247424.97	12247425.08	12247425.19	0.2665	0.0372
Mercury	28830-09-17 09:36 G	12251260.78	12251260.90	12251261.01	0.2666	0.1640
Venus	28832-08-05 20:24 G	12251949.19	12251949.35	12251949.51	0.2670	0.0337
Mercury	28833-03-20 08:24 G	12252175.77	12252175.85	12252175.93	0.2665	0.1819
Mercury	28840-03-13 06:29 G	12254725.71	12254725.77	12254725.84	0.2665	0.2162
Mercury	28853-03-16 00:43 G	12259476.42	12259476.53	12259476.64	0.2665	0.0762
Mercury	28863-09-15 11:17 G	12263311.82	12263311.97	12263312.12	0.2666	0.0448
Mercury	28866-03-18 18:57 G	12264227.18	12264227.29	12264227.40	0.2665	0.0670
Mercury	28876-09-17 15:36 G	12268063.07	12268063.15	12268063.24	0.2666	0.2135
Mercury	28879-03-21 13:12 G	12268977.99	12268978.05	12268978.12	0.2665	0.2123
Mercury	28886-03-14 11:31 G	12271527.90	12271527.98	12271528.05	0.2664	0.1875
Mercury	28896-09-12 12:43 G	12275363.00	12275363.03	12275363.06	0.2667	0.2607
Mercury	28899-03-17 05:31 G	12276278.62	12276278.73	12276278.84	0.2665	0.0468
Mercury	28909-09-16 17:31 G	12280114.08	12280114.23	12280114.38	0.2667	0.0084
Mercury	28912-03-19 23:45 G	12281029.39	12281029.49	12281029.60	0.2665	0.0966
Mercury	28922-09-19 22:05 G	12284865.40	12284865.42	12284865.43	0.2666	0.2640
Mercury	28925-03-22 18:14 G	12285780.22	12285780.26	12285780.30	0.2665	0.2428
Mercury	28932-03-15 16:19 G	12288330.09	12288330.18	12288330.27	0.2664	0.1582
Mercury	28942-09-14 19:12 G	12292165.20	12292165.30	12292165.39	0.2667	0.2073
Mercury	28945-03-18 10:19 G	12293080.82	12293080.93	12293081.05	0.2665	0.0194
Venus	28946-02-06 12:14 G	12293405.86	12293406.01	12293406.17	0.2661	0.0703

Mercury	28955-09-17 23:45 G	12296916.35	12296916.49	12296916.64	0.2667	0.0581
Mercury	28958-03-21 04:48 G	12297831.60	12297831.70	12297831.80	0.2665	0.1269
Mercury	28978-03-16 21:07 G	12305132.28	12305132.38	12305132.48	0.2664	0.1293
Mercury	28988-09-15 01:26 G	12308967.44	12308967.56	12308967.68	0.2667	0.1548
Mercury	28991-03-19 15:21 G	12309883.02	12309883.14	12309883.25	0.2665	0.0141

30TH MILLENNIUM CE

This is a list of transits visible from Earth in the 30th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	29001-09-19 06:14 G		12313718.62	12313718.76	12313718.90	0.2667	0.1093	
Mercury	29004-03-22 09:36 G		12314633.81	12314633.90	12314633.99	0.2665	0.1566	
Mercury	29011-03-16 07:55 G		12317183.78	12317183.83	12317183.88	0.2664	0.2396	
Mercury	29024-03-18 01:55 G		12321934.48	12321934.58	12321934.69	0.2664	0.1002	
Mercury	29034-09-17 07:55 G		12325769.69	12325769.83	12325769.97	0.2667	0.1022	
Mercury	29037-03-20 20:09 G		12326685.23	12326685.34	12326685.45	0.2664	0.0420	
Mercury	29047-09-20 12:29 G		12330520.90	12330521.02	12330521.14	0.2667	0.1602	
Mercury	29050-03-23 14:24 G		12331436.02	12331436.10	12331436.18	0.2665	0.1868	
Mercury	29057-03-16 12:43 G		12333985.97	12333986.03	12333986.10	0.2664	0.2106	
Mercury	29070-03-19 06:43 G		12338736.68	12338736.78	12338736.89	0.2664	0.0720	
Venus	29075-08-08 20:09 G		12340705.18	12340705.34	12340705.50	0.2671	0.0081	
Mercury	29080-09-17 14:09 G		12342571.94	12342572.09	12342572.24	0.2667	0.0501	
Mercury	29083-03-22 00:57 G		12343487.43	12343487.54	12343487.65	0.2664	0.0719	
Mercury	29093-09-20 18:43 G		12347323.19	12347323.28	12347323.37	0.2667	0.2111	

Mercury	29096-03-23 19:26 G	12348238.24	12348238.31	12348238.37	0.2665	0.2166
Mercury	29103-03-18 17:31 G	12350788.15	12350788.23	12350788.32	0.2664	0.1816
Mercury	29116-03-20 11:45 G	12355538.88	12355538.99	12355539.10	0.2664	0.0413
Mercury	29126-09-19 20:24 G	12359374.20	12359374.35	12359374.50	0.2667	0.0051
Mercury	29129-03-23 06:00 G	12360289.64	12360289.75	12360289.85	0.2664	0.1013
Mercury	29139-09-23 00:57 G	12364125.52	12364125.54	12364125.57	0.2667	0.2610
Mercury	29142-03-26 00:14 G	12365040.47	12365040.51	12365040.55	0.2665	0.2464
Mercury	29149-03-18 22:33 G	12367590.35	12367590.44	12367590.53	0.2664	0.1526
Mercury	29159-09-17 21:50 G	12371425.32	12371425.41	12371425.50	0.2667	0.2149
Mercury	29162-03-21 16:33 G	12372341.08	12372341.19	12372341.31	0.2664	0.0132
Mercury	29172-09-20 02:53 G	12376176.47	12376176.62	12376176.76	0.2667	0.0535
Mercury	29175-03-24 10:48 G	12377091.85	12377091.95	12377092.05	0.2664	0.1315
Mercury	29182-03-17 09:21 G	12379641.87	12379641.89	12379641.90	0.2664	0.2622
Venus	29189-02-08 14:24 G	12382161.94	12382162.10	12382162.25	0.2660	0.0661
Mercury	29195-03-20 03:21 G	12384392.54	12384392.64	12384392.74	0.2664	0.1235
Mercury	29205-09-18 04:05 G	12388227.55	12388227.67	12388227.79	0.2667	0.1617
Mercury	29208-03-21 21:36 G	12389143.28	12389143.40	12389143.51	0.2664	0.0196
Mercury	29218-09-21 09:07 G	12392978.74	12392978.88	12392979.02	0.2667	0.1046
Mercury	29221-03-24 15:50 G	12393894.07	12393894.16	12393894.24	0.2664	0.1615
Mercury	29228-03-17 14:09 G	12396444.04	12396444.09	12396444.14	0.2664	0.2332
Mercury	29241-03-20 08:09 G	12401194.74	12401194.84	12401194.95	0.2664	0.0949
Mercury	29251-09-19 10:33 G	12405029.80	12405029.94	12405030.08	0.2668	0.1084
Mercury	29254-03-23 02:24 G	12405945.49	12405945.60	12405945.71	0.2664	0.0471
Mercury	29264-09-21 15:21 G	12409781.02	12409781.14	12409781.26	0.2667	0.1560
Mercury	29267-03-25 20:38 G	12410696.28	12410696.36	12410696.44	0.2664	0.1910
Mercury	29274-03-18 18:57 G	12413246.22	12413246.29	12413246.36	0.2664	0.2047
Mercury	29287-03-21 13:12 G	12417996.94	12417997.05	12417997.15	0.2664	0.0657
Mercury	29297-09-19 17:02 G	12421832.06	12421832.21	12421832.36	0.2668	0.0557
Mercury	29300-03-24 07:12 G	12422747.69	12422747.80	12422747.91	0.2664	0.0766
Mercury	29310-09-23 21:36 G	12426583.31	12426583.40	12426583.50	0.2667	0.2072

Mercury	29313-03-27 01:26 G	12427498.50	12427498.56	12427498.62	0.2664	0.2208
Venus	29318-08-10 19:55 G	12429461.17	12429461.33	12429461.49	0.2671	0.0188
Mercury	29320-03-20 00:00 G	12430048.41	12430048.50	12430048.58	0.2664	0.1763
Mercury	29333-03-22 18:00 G	12434799.14	12434799.25	12434799.36	0.2664	0.0365
Mercury	29343-09-21 23:17 G	12438634.32	12438634.47	12438634.62	0.2668	0.0047
Mercury	29346-03-25 12:00 G	12439549.90	12439550.00	12439550.11	0.2664	0.1067
Mercury	29356-09-24 04:05 G	12443385.64	12443385.67	12443385.70	0.2667	0.2580
Mercury	29359-03-28 06:29 G	12444300.73	12444300.77	12444300.80	0.2664	0.2509
Mercury	29366-03-21 04:48 G	12446850.60	12446850.70	12446850.79	0.2664	0.1473
Mercury	29376-09-19 00:29 G	12450685.44	12450685.52	12450685.61	0.2668	0.2212
Mercury	29379-03-23 22:48 G	12451601.34	12451601.45	12451601.56	0.2664	0.0070
Mercury	29389-09-22 05:45 G	12455436.59	12455436.74	12455436.89	0.2667	0.0490
Mercury	29392-03-25 17:02 G	12456352.11	12456352.21	12456352.30	0.2664	0.1357
Mercury	29399-03-19 15:36 G	12458902.12	12458902.15	12458902.18	0.2663	0.2556
Mercury	29412-03-22 09:36 G	12463652.80	12463652.90	12463653.00	0.2663	0.1180
Mercury	29422-09-21 06:57 G	12467487.67	12467487.79	12467487.91	0.2668	0.1679
Mercury	29425-03-25 03:36 G	12468403.54	12468403.65	12468403.76	0.2664	0.0230
Venus	29432-02-11 16:33 G	12470918.04	12470918.19	12470918.34	0.2660	0.0634
Mercury	29435-09-24 12:00 G	12472238.86	12472239.00	12472239.14	0.2668	0.1004
Mercury	29438-03-27 21:50 G	12473154.32	12473154.41	12473154.50	0.2664	0.1652
Mercury	29445-03-20 20:24 G	12475704.30	12475704.35	12475704.41	0.2663	0.2275
Mercury	29458-03-23 14:24 G	12480455.00	12480455.10	12480455.21	0.2663	0.0889
Mercury	29468-09-21 13:26 G	12484289.92	12484290.06	12484290.19	0.2668	0.1153
Mercury	29471-03-26 08:38 G	12485205.75	12485205.86	12485205.97	0.2664	0.0526
Mercury	29481-09-24 18:14 G	12489041.14	12489041.26	12489041.39	0.2668	0.1513
Mercury	29484-03-28 02:53 G	12489956.54	12489956.62	12489956.69	0.2664	0.1953
Mercury	29491-03-22 01:26 G	12492506.48	12492506.56	12492506.63	0.2663	0.1989
Mercury	29504-03-24 19:12 G	12497257.20	12497257.30	12497257.41	0.2663	0.0609
Mercury	29514-09-23 19:41 G	12501092.17	12501092.32	12501092.47	0.2668	0.0628
Mercury	29517-03-27 13:26 G	12502007.95	12502008.06	12502008.17	0.2664	0.0816

Mercury	29527-09-27 00:43 G	12505843.43	12505843.53	12505843.62	0.2668	0.2024
Mercury	29530-03-30 07:41 G	12506758.76	12506758.82	12506758.88	0.2664	0.2254
Mercury	29537-03-23 06:14 G	12509308.67	12509308.76	12509308.84	0.2663	0.1705
Mercury	29550-03-26 00:14 G	12514059.40	12514059.51	12514059.62	0.2663	0.0317
Mercury	29560-09-24 02:09 G	12517894.43	12517894.59	12517894.74	0.2668	0.0123
Venus	29561-08-12 19:41 G	12518217.17	12518217.32	12518217.48	0.2671	0.0442
Mercury	29563-03-28 18:14 G	12518810.16	12518810.26	12518810.36	0.2663	0.1109
Mercury	29573-09-27 06:57 G	12522645.74	12522645.79	12522645.83	0.2668	0.2528
Mercury	29576-03-30 12:29 G	12523560.99	12523561.02	12523561.05	0.2664	0.2553
Mercury	29583-03-24 11:02 G	12526110.86	12526110.96	12526111.05	0.2663	0.1414
Mercury	29593-09-22 03:07 G	12529945.56	12529945.63	12529945.71	0.2668	0.2288
Mercury	29596-03-26 05:02 G	12530861.60	12530861.71	12530861.82	0.2663	0.0034
Mercury	29606-09-25 08:24 G	12534696.70	12534696.85	12534697.00	0.2668	0.0434
Mercury	29609-03-28 23:17 G	12535612.37	12535612.47	12535612.56	0.2663	0.1407
Mercury	29616-03-21 21:50 G	12538162.38	12538162.41	12538162.45	0.2663	0.2504
Mercury	29629-03-24 15:50 G	12542913.06	12542913.16	12542913.26	0.2663	0.1126
Mercury	29639-09-23 09:36 G	12546747.79	12546747.90	12546748.01	0.2668	0.1752
Mercury	29642-03-27 09:50 G	12547663.80	12547663.91	12547664.02	0.2663	0.0279
Mercury	29652-09-25 14:53 G	12551498.98	12551499.12	12551499.26	0.2668	0.0949
Mercury	29655-03-30 04:05 G	12552414.58	12552414.67	12552414.76	0.2663	0.1698
Mercury	29662-03-23 02:53 G	12554964.56	12554964.62	12554964.67	0.2663	0.2219
Venus	29675-02-12 18:43 G	12559674.12	12559674.28	12559674.43	0.2660	0.0601
Mercury	29675-03-25 20:38 G	12559715.26	12559715.36	12559715.47	0.2663	0.0840
Mercury	29685-09-23 15:50 G	12563550.03	12563550.16	12563550.30	0.2668	0.1228
Mercury	29688-03-27 14:38 G	12564466.00	12564466.11	12564466.22	0.2663	0.0573
Mercury	29698-09-26 21:07 G	12568301.26	12568301.38	12568301.51	0.2668	0.1464
Mercury	29701-03-31 08:53 G	12569216.80	12569216.87	12569216.95	0.2663	0.1999
Mercury	29708-03-24 07:41 G	12571766.74	12571766.82	12571766.89	0.2663	0.1934
Mercury	29721-03-27 01:26 G	12576517.45	12576517.56	12576517.67	0.2663	0.0556
Mercury	29731-09-25 22:19 G	12580352.29	12580352.43	12580352.58	0.2668	0.0691

Mercury	29734-03-29 19:41 G	12581268.21	12581268.32	12581268.42	0.2663	0.0860
Mercury	29744-09-28 03:21 G	12585103.54	12585103.64	12585103.74	0.2668	0.1979
Mercury	29747-04-01 13:55 G	12586019.02	12586019.08	12586019.13	0.2663	0.2294
Mercury	29754-03-25 12:29 G	12588568.93	12588569.02	12588569.10	0.2663	0.1643
Mercury	29767-03-28 06:29 G	12593319.66	12593319.77	12593319.88	0.2663	0.0267
Mercury	29777-09-26 04:48 G	12597154.55	12597154.70	12597154.85	0.2668	0.0160
Mercury	29780-03-30 00:29 G	12598070.42	12598070.52	12598070.62	0.2663	0.1154
Mercury	29790-09-29 09:50 G	12601905.86	12601905.91	12601905.96	0.2668	0.2495
Mercury	29793-04-01 18:43 G	12602821.26	12602821.28	12602821.30	0.2663	0.2591
Mercury	29800-03-26 17:17 G	12605371.12	12605371.22	12605371.31	0.2663	0.1359
Venus	29804-08-14 19:41 G	12606973.16	12606973.32	12606973.47	0.2672	0.0690
Mercury	29810-09-25 05:45 G	12609205.67	12609205.74	12609205.80	0.2669	0.2376
Mercury	29813-03-29 11:17 G	12610121.86	12610121.97	12610122.08	0.2663	0.0037
Mercury	29823-09-28 11:02 G	12613956.81	12613956.96	12613957.12	0.2668	0.0367
Mercury	29826-04-01 05:17 G	12614872.63	12614872.72	12614872.82	0.2663	0.1456
Mercury	29833-03-25 04:19 G	12617422.63	12617422.68	12617422.72	0.2662	0.2445
Mercury	29846-03-27 22:05 G	12622173.32	12622173.42	12622173.52	0.2662	0.1072
Mercury	29856-09-25 12:00 G	12626007.90	12626008.00	12626008.11	0.2669	0.1842
Mercury	29859-03-30 16:05 G	12626924.06	12626924.17	12626924.28	0.2663	0.0330
Mercury	29869-09-28 17:31 G	12630759.09	12630759.23	12630759.37	0.2669	0.0885
Mercury	29872-04-01 10:19 G	12631674.84	12631674.93	12631675.01	0.2663	0.1749
Mercury	29879-03-26 09:07 G	12634224.81	12634224.88	12634224.94	0.2662	0.2163
Mercury	29892-03-28 02:53 G	12638975.52	12638975.62	12638975.73	0.2663	0.0789
Mercury	29902-09-27 18:43 G	12642810.14	12642810.28	12642810.41	0.2669	0.1290
Mercury	29905-03-31 21:07 G	12643726.27	12643726.38	12643726.48	0.2663	0.0626
Mercury	29915-10-01 00:00 G	12647561.37	12647561.50	12647561.63	0.2669	0.1411
Venus	29918-02-15 21:07 G	12648430.22	12648430.38	12648430.53	0.2660	0.0601
Mercury	29918-04-03 15:07 G	12648477.06	12648477.13	12648477.20	0.2663	0.2040
Mercury	29925-03-27 13:55 G	12651027.00	12651027.08	12651027.16	0.2662	0.1876
Mercury	29938-03-30 07:55 G	12655777.72	12655777.83	12655777.94	0.2662	0.0504

Mercury	29948-09-28 00:57 G	12659612.40	12659612.54	12659612.69	0.2669	0.0762
Mercury	29951-04-02 01:55 G	12660528.47	12660528.58	12660528.68	0.2663	0.0910
Mercury	29961-10-01 06:29 G	12664363.66	12664363.77	12664363.87	0.2669	0.1940
Mercury	29964-04-03 19:55 G	12665279.28	12665279.33	12665279.38	0.2663	0.2338
Mercury	29971-03-28 18:43 G	12667829.19	12667829.28	12667829.37	0.2662	0.1592
Mercury	29984-03-30 12:43 G	12672579.92	12672580.03	12672580.14	0.2662	0.0210
Mercury	29994-09-29 07:26 G	12676414.66	12676414.81	12676414.96	0.2669	0.0231
Mercury	29997-04-02 06:43 G	12677330.68	12677330.78	12677330.88	0.2662	0.1203

31ST MILLENNIUM CE

This is a list of transits visible from Earth in the 31st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	30007-10-02 12:43 G		12681165.97	12681166.03	12681166.09	0.2669	0.2447	
Mercury	30010-04-05 00:57 G		12682081.52	12682081.54	12682081.55	0.2663	0.2632	
Mercury	30017-03-28 23:31 G		12684631.39	12684631.48	12684631.58	0.2662	0.1304	
Mercury	30027-09-27 08:09 G		12688465.79	12688465.84	12688465.90	0.2669	0.2462	
Mercury	30030-03-31 17:31 G		12689382.12	12689382.23	12689382.34	0.2662	0.0085	
Mercury	30040-09-29 13:55 G		12693216.93	12693217.08	12693217.23	0.2669	0.0302	
Mercury	30043-04-03 11:31 G		12694132.89	12694132.98	12694133.07	0.2663	0.1495	
Venus	30047-08-16 19:26 G		12695729.16	12695729.31	12695729.46	0.2672	0.0954	
Mercury	30050-03-27 10:33 G		12696682.89	12696682.94	12696682.99	0.2662	0.2385	
Mercury	30063-03-30 04:19 G		12701433.58	12701433.68	12701433.79	0.2662	0.1021	
Mercury	30073-09-27 14:53 G		12705268.01	12705268.12	12705268.22	0.2669	0.1912	

Mercury	30076-03-31 22:19 G	12706184.32	12706184.43	12706184.54	0.2662	0.0383
Mercury	30086-09-30 20:24 G	12710019.20	12710019.35	12710019.49	0.2669	0.0833
Mercury	30089-04-03 16:33 G	12710935.10	12710935.19	12710935.27	0.2662	0.1792
Mercury	30096-03-27 15:21 G	12713485.08	12713485.14	12713485.21	0.2662	0.2100
Mercury	30109-03-31 09:21 G	12718235.78	12718235.89	12718235.99	0.2662	0.0732
Mercury	30119-09-29 21:07 G	12722070.25	12722070.38	12722070.51	0.2669	0.1379
Mercury	30122-04-03 03:07 G	12722986.53	12722986.63	12722986.74	0.2662	0.0673
Mercury	30132-10-02 02:38 G	12726821.48	12726821.61	12726821.74	0.2669	0.1358
Mercury	30135-04-05 21:21 G	12727737.32	12727737.39	12727737.46	0.2662	0.2086
Mercury	30142-03-29 20:09 G	12730287.26	12730287.34	12730287.42	0.2662	0.1818
Mercury	30155-04-01 14:09 G	12735037.98	12735038.09	12735038.20	0.2662	0.0443
Venus	30161-02-16 23:17 G	12737186.32	12737186.47	12737186.62	0.2659	0.0569
Mercury	30165-09-30 03:36 G	12738872.51	12738872.65	12738872.80	0.2669	0.0836
Mercury	30168-04-03 08:09 G	12739788.73	12739788.84	12739788.94	0.2662	0.0962
Mercury	30178-10-03 09:07 G	12743623.77	12743623.88	12743623.98	0.2669	0.1870
Mercury	30181-04-06 02:09 G	12744539.54	12744539.59	12744539.64	0.2662	0.2381
Mercury	30188-03-30 00:57 G	12747089.45	12747089.54	12747089.63	0.2662	0.1536
Mercury	30201-04-02 18:57 G	12751840.18	12751840.29	12751840.40	0.2662	0.0154
Mercury	30211-10-02 10:05 G	12755674.77	12755674.92	12755675.07	0.2669	0.0301
Mercury	30214-04-05 12:57 G	12756590.94	12756591.04	12756591.14	0.2662	0.1249
Mercury	30221-03-29 12:00 G	12759140.99	12759141.00	12759141.02	0.2662	0.2612
Mercury	30224-10-04 15:21 G	12760426.08	12760426.14	12760426.21	0.2669	0.2396
Mercury	30234-04-01 05:45 G	12763891.65	12763891.74	12763891.84	0.2662	0.1254
Mercury	30244-09-29 10:48 G	12767725.91	12767725.95	12767726.00	0.2670	0.2540
Mercury	30247-04-03 23:45 G	12768642.38	12768642.49	12768642.60	0.2662	0.0136
Mercury	30257-10-02 16:33 G	12772477.04	12772477.19	12772477.34	0.2669	0.0241
Mercury	30260-04-05 17:45 G	12773393.15	12773393.24	12773393.33	0.2662	0.1544
Mercury	30267-03-30 16:48 G	12775943.15	12775943.20	12775943.26	0.2662	0.2328
Mercury	30280-04-01 10:48 G	12780693.84	12780693.95	12780694.05	0.2662	0.0968
Venus	30290-08-18 19:12 G	12784485.16	12784485.30	12784485.44	0.2672	0.1202

Mercury	30290-09-30	17:17	G	12784528.12	12784528.22	12784528.32	0.2670	0.2000
Mercury	30293-04-04	04:33	G	12785444.58	12785444.69	12785444.80	0.2662	0.0426
Mercury	30303-10-04	23:02	G	12789279.31	12789279.46	12789279.60	0.2669	0.0768
Mercury	30306-04-07	22:33	G	12790195.36	12790195.44	12790195.53	0.2662	0.1837
Mercury	30313-03-31	21:50	G	12792745.34	12792745.41	12792745.47	0.2662	0.2045
Mercury	30326-04-03	15:36	G	12797496.04	12797496.15	12797496.26	0.2662	0.0678
Mercury	30336-10-01	23:45	G	12801330.36	12801330.49	12801330.62	0.2670	0.1452
Mercury	30339-04-06	09:36	G	12802246.79	12802246.90	12802247.00	0.2662	0.0721
Mercury	30349-10-05	05:17	G	12806081.59	12806081.72	12806081.86	0.2669	0.1292
Mercury	30352-04-08	03:36	G	12806997.58	12806997.65	12806997.71	0.2662	0.2127
Mercury	30359-04-02	02:38	G	12809547.52	12809547.61	12809547.69	0.2661	0.1761
Mercury	30372-04-03	20:24	G	12814298.24	12814298.35	12814298.46	0.2662	0.0388
Mercury	30382-10-03	06:14	G	12818132.61	12818132.76	12818132.90	0.2670	0.0921
Mercury	30385-04-06	14:24	G	12819049.00	12819049.10	12819049.20	0.2662	0.1006
Mercury	30395-10-06	11:45	G	12822883.88	12822883.99	12822884.10	0.2670	0.1817
Mercury	30398-04-09	08:24	G	12823799.81	12823799.85	12823799.90	0.2662	0.2422
Venus	30404-02-20	01:41	G	12825942.42	12825942.57	12825942.73	0.2659	0.0592
Mercury	30405-04-02	07:26	G	12826349.71	12826349.81	12826349.90	0.2661	0.1480
Mercury	30418-04-05	01:12	G	12831100.44	12831100.55	12831100.66	0.2662	0.0105
Mercury	30428-10-03	12:43	G	12834934.88	12834935.03	12834935.18	0.2670	0.0377
Mercury	30431-04-07	19:12	G	12835851.20	12835851.30	12835851.40	0.2662	0.1298
Mercury	30438-03-31	18:29	G	12838401.24	12838401.27	12838401.30	0.2661	0.2549
Mercury	30441-10-06	18:14	G	12839686.19	12839686.26	12839686.33	0.2669	0.2336
Mercury	30451-04-03	12:14	G	12843151.91	12843152.01	12843152.11	0.2661	0.1194
Mercury	30461-10-01	13:12	G	12846986.03	12846986.05	12846986.07	0.2670	0.2643
Mercury	30464-04-05	06:00	G	12847902.64	12847902.75	12847902.86	0.2661	0.0202
Mercury	30474-10-04	19:12	G	12851737.14	12851737.30	12851737.45	0.2670	0.0170
Mercury	30477-04-08	00:00	G	12852653.41	12852653.50	12852653.59	0.2662	0.1587
Mercury	30484-03-31	23:17	G	12855203.41	12855203.47	12855203.52	0.2661	0.2271
Mercury	30497-04-03	17:02	G	12859954.10	12859954.21	12859954.31	0.2661	0.0909

Mercury	30507-10-03 19:41 G	12863788.23	12863788.32	12863788.42	0.2670	0.2089
Mercury	30510-04-07 11:02 G	12864704.85	12864704.96	12864705.07	0.2661	0.0482
Mercury	30520-10-06 01:41 G	12868539.42	12868539.57	12868539.71	0.2670	0.0697
Mercury	30523-04-10 05:02 G	12869455.63	12869455.71	12869455.78	0.2661	0.1882
Venus	30525-08-23 04:48 G	12870321.65	12870321.70	12870321.76	0.2673	0.2469
Mercury	30530-04-03 04:05 G	12872005.60	12872005.67	12872005.74	0.2661	0.1990
Venus	30533-08-20 18:57 G	12873241.15	12873241.29	12873241.42	0.2673	0.1471
Mercury	30543-04-05 21:50 G	12876756.30	12876756.41	12876756.52	0.2661	0.0626
Mercury	30553-10-04 02:09 G	12880590.47	12880590.59	12880590.72	0.2670	0.1546
Mercury	30556-04-07 15:50 G	12881507.05	12881507.16	12881507.26	0.2661	0.0764
Mercury	30566-10-07 07:55 G	12885341.70	12885341.83	12885341.97	0.2670	0.1228
Mercury	30569-04-10 09:50 G	12886257.84	12886257.91	12886257.97	0.2662	0.2171
Mercury	30576-04-03 08:53 G	12888807.79	12888807.87	12888807.95	0.2661	0.1710
Mercury	30589-04-06 02:38 G	12893558.50	12893558.61	12893558.72	0.2661	0.0343
Mercury	30599-10-05 08:38 G	12897392.72	12897392.86	12897393.01	0.2670	0.1000
Mercury	30602-04-09 20:38 G	12898309.26	12898309.36	12898309.46	0.2661	0.1050
Mercury	30612-10-08 14:24 G	12902143.99	12902144.10	12902144.22	0.2670	0.1756
Mercury	30615-04-12 14:38 G	12903060.07	12903060.11	12903060.15	0.2661	0.2463
Mercury	30622-04-05 13:41 G	12905609.98	12905610.07	12905610.16	0.2661	0.1423
Mercury	30635-04-08 07:26 G	12910360.70	12910360.81	12910360.93	0.2661	0.0111
Mercury	30645-10-06 15:07 G	12914194.98	12914195.13	12914195.28	0.2670	0.0463
Venus	30647-02-22 04:05 G	12914698.52	12914698.67	12914698.83	0.2659	0.0573
Mercury	30648-04-10 01:26 G	12915111.46	12915111.56	12915111.66	0.2661	0.1337
Mercury	30655-04-04 00:43 G	12917661.50	12917661.53	12917661.57	0.2661	0.2494
Mercury	30658-10-09 20:53 G	12918946.29	12918946.37	12918946.45	0.2670	0.2280
Mercury	30668-04-05 18:29 G	12922412.17	12922412.27	12922412.37	0.2661	0.1141
Mercury	30681-04-08 12:29 G	12927162.91	12927163.02	12927163.13	0.2661	0.0250
Mercury	30691-10-07 21:36 G	12930997.25	12930997.40	12930997.56	0.2670	0.0106
Mercury	30694-04-11 06:14 G	12931913.68	12931913.76	12931913.85	0.2661	0.1632
Mercury	30701-04-05 05:31 G	12934463.67	12934463.73	12934463.79	0.2661	0.2214

Mercury	30714-04-07 23:17 G	12939214.37	12939214.47	12939214.58	0.2661	0.0862
Mercury	30724-10-05 22:05 G	12943048.33	12943048.42	12943048.51	0.2671	0.2195
Mercury	30727-04-10 17:17 G	12943965.11	12943965.22	12943965.33	0.2661	0.0526
Mercury	30737-10-09 04:05 G	12947799.52	12947799.67	12947799.82	0.2670	0.0609
Mercury	30740-04-12 11:02 G	12948715.89	12948715.96	12948716.04	0.2661	0.1926
Mercury	30747-04-06 10:19 G	12951265.86	12951265.93	12951266.01	0.2661	0.1939
Mercury	30760-04-08 04:05 G	12956016.57	12956016.67	12956016.78	0.2661	0.0582
Venus	30768-08-25 04:19 G	12959077.59	12959077.68	12959077.77	0.2673	0.2195
Mercury	30770-10-07 04:33 G	12959850.57	12959850.69	12959850.81	0.2671	0.1643
Mercury	30773-04-10 22:05 G	12960767.31	12960767.42	12960767.52	0.2661	0.0810
Venus	30776-08-22 18:29 G	12961997.15	12961997.27	12961997.39	0.2673	0.1740
Mercury	30783-10-10 10:33 G	12964601.80	12964601.94	12964602.08	0.2670	0.1148
Mercury	30786-04-13 16:05 G	12965518.11	12965518.17	12965518.23	0.2661	0.2214
Mercury	30793-04-06 15:07 G	12968068.05	12968068.13	12968068.22	0.2661	0.1656
Mercury	30806-04-09 09:07 G	12972818.77	12972818.88	12972818.99	0.2661	0.0306
Mercury	30816-10-07 11:02 G	12976652.82	12976652.96	12976653.11	0.2671	0.1095
Mercury	30819-04-12 02:53 G	12977569.52	12977569.62	12977569.72	0.2661	0.1095
Mercury	30829-10-10 17:02 G	12981404.09	12981404.21	12981404.33	0.2670	0.1680
Mercury	30832-04-13 20:53 G	12982320.34	12982320.37	12982320.40	0.2661	0.2504
Mercury	30839-04-07 19:55 G	12984870.24	12984870.33	12984870.43	0.2661	0.1378
Mercury	30852-04-09 13:55 G	12989620.96	12989621.08	12989621.19	0.2661	0.0086
Mercury	30862-10-08 17:45 G	12993455.09	12993455.24	12993455.39	0.2671	0.0545
Mercury	30865-04-12 07:41 G	12994371.73	12994371.82	12994371.92	0.2661	0.1386
Mercury	30872-04-05 07:12 G	12996921.76	12996921.80	12996921.84	0.2660	0.2442
Mercury	30875-10-11 23:31 G	12998206.39	12998206.48	12998206.56	0.2670	0.2211
Mercury	30885-04-08 00:57 G	13001672.44	13001672.54	13001672.64	0.2660	0.1095
Venus	30890-02-23 06:29 G	13003454.62	13003454.77	13003454.93	0.2658	0.0569
Mercury	30898-04-10 18:43 G	13006423.17	13006423.28	13006423.39	0.2661	0.0288
Mercury	30908-10-10 00:14 G	13010257.35	13010257.51	13010257.66	0.2671	0.0084
Mercury	30911-04-14 12:29 G	13011173.94	13011174.02	13011174.11	0.2661	0.1677

Mercury	30918-04-07 12:00 G	13013723.94	13013724.00	13013724.06	0.2660	0.2161
Mercury	30931-04-10 05:45 G	13018474.63	13018474.74	13018474.84	0.2661	0.0815
Mercury	30941-10-08 00:29 G	13022308.44	13022308.52	13022308.60	0.2671	0.2292
Mercury	30944-04-11 23:31 G	13023225.37	13023225.48	13023225.59	0.2661	0.0567
Mercury	30954-10-11 06:43 G	13027059.63	13027059.78	13027059.93	0.2671	0.0539
Mercury	30957-04-14 17:31 G	13027976.15	13027976.23	13027976.30	0.2661	0.1963
Mercury	30964-04-07 16:48 G	13030526.12	13030526.20	13030526.28	0.2660	0.1877
Mercury	30977-04-10 10:33 G	13035276.83	13035276.94	13035277.05	0.2660	0.0526
Mercury	30987-10-09 06:57 G	13039110.67	13039110.79	13039110.91	0.2671	0.1743
Mercury	30990-04-13 04:19 G	13040027.58	13040027.68	13040027.79	0.2661	0.0852
Mercury	31000-10-12 13:12 G	13043861.91	13043862.05	13043862.19	0.2671	0.1072

32ND MILLENNIUM CE

This is a list of transits visible from Earth in the 32nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	31003-04-16 22:19 G	13044778.37	13044778.43	13044778.49	0.2661	0.2252		
Mercury	31010-04-09 21:36 G	13047328.31	13047328.40	13047328.49	0.2660	0.1601		
Venus	31011-08-28 04:05 G	13047833.56	13047833.67	13047833.78	0.2673	0.1924		
Venus	31019-08-25 18:00 G	13050753.15	13050753.25	13050753.36	0.2673	0.2011		
Mercury	31023-04-12 15:21 G	13052079.03	13052079.14	13052079.25	0.2660	0.0243		
Mercury	31033-10-10 13:26 G	13055912.92	13055913.06	13055913.20	0.2671	0.1196		
Mercury	31036-04-14 09:07 G	13056829.78	13056829.88	13056829.98	0.2660	0.1147		
Mercury	31046-10-13 19:26 G	13060664.19	13060664.31	13060664.44	0.2671	0.1605		

Mercury	31049-04-17 03:07 G	13061580.60	13061580.63	13061580.66	0.2661	0.2544
Mercury	31056-04-10 02:24 G	13064130.50	13064130.60	13064130.70	0.2660	0.1320
Mercury	31069-04-12 20:09 G	13068881.23	13068881.34	13068881.45	0.2660	0.0043
Mercury	31079-10-11 19:55 G	13072715.18	13072715.33	13072715.48	0.2671	0.0653
Mercury	31082-04-15 13:55 G	13073631.99	13073632.08	13073632.18	0.2660	0.1434
Mercury	31089-04-08 13:26 G	13076182.02	13076182.06	13076182.11	0.2660	0.2387
Mercury	31092-10-14 01:55 G	13077466.49	13077466.58	13077466.67	0.2671	0.2129
Mercury	31102-04-12 07:12 G	13080932.70	13080932.80	13080932.90	0.2660	0.1043
Mercury	31115-04-15 00:57 G	13085683.43	13085683.54	13085683.65	0.2660	0.0328
Mercury	31125-10-13 02:38 G	13089517.45	13089517.61	13089517.76	0.2671	0.0111
Mercury	31128-04-16 18:57 G	13090434.20	13090434.29	13090434.37	0.2660	0.1718
Venus	31133-02-26 08:53 G	13092210.72	13092210.87	13092211.03	0.2658	0.0571
Mercury	31135-04-10 18:14 G	13092984.20	13092984.26	13092984.33	0.2660	0.2109
Mercury	31138-10-16 08:24 G	13094268.84	13094268.85	13094268.86	0.2671	0.2659
Mercury	31148-04-12 12:00 G	13097734.89	13097735.00	13097735.11	0.2660	0.0757
Mercury	31158-10-11 02:38 G	13101568.55	13101568.61	13101568.68	0.2671	0.2403
Mercury	31161-04-15 05:45 G	13102485.63	13102485.74	13102485.85	0.2660	0.0613
Mercury	31171-10-14 09:07 G	13106319.73	13106319.88	13106320.03	0.2671	0.0449
Mercury	31174-04-17 23:45 G	13107236.42	13107236.49	13107236.56	0.2660	0.2003
Mercury	31181-04-10 23:02 G	13109786.38	13109786.46	13109786.54	0.2660	0.1832
Mercury	31194-04-13 16:48 G	13114537.09	13114537.20	13114537.31	0.2660	0.0478
Mercury	31204-10-11 09:21 G	13118370.78	13118370.89	13118371.00	0.2671	0.1849
Mercury	31207-04-16 10:33 G	13119287.84	13119287.94	13119288.05	0.2660	0.0904
Mercury	31217-10-14 15:36 G	13123122.01	13123122.15	13123122.29	0.2671	0.0985
Mercury	31220-04-18 04:33 G	13124038.63	13124038.69	13124038.74	0.2660	0.2290
Mercury	31227-04-12 03:50 G	13126588.57	13126588.66	13126588.75	0.2660	0.1552
Mercury	31240-04-13 21:36 G	13131339.29	13131339.40	13131339.51	0.2660	0.0206
Mercury	31250-10-12 15:50 G	13135173.02	13135173.16	13135173.29	0.2671	0.1298
Mercury	31253-04-16 15:21 G	13136090.04	13136090.14	13136090.24	0.2660	0.1185
Venus	31254-08-29 03:36 G	13136589.53	13136589.65	13136589.78	0.2673	0.1656

Mercury	31260-04-09 15:07 G	13138640.11	13138640.13	13138640.15	0.2660	0.2606
Venus	31262-08-26 17:31 G	13139509.15	13139509.23	13139509.31	0.2673	0.2294
Mercury	31263-10-15 22:05 G	13139924.29	13139924.42	13139924.54	0.2671	0.1517
Mercury	31266-04-19 09:21 G	13140840.87	13140840.89	13140840.91	0.2660	0.2580
Mercury	31273-04-12 08:38 G	13143390.77	13143390.86	13143390.96	0.2660	0.1275
Mercury	31286-04-15 02:24 G	13148141.49	13148141.60	13148141.71	0.2660	0.0124
Mercury	31296-10-12 22:19 G	13151975.28	13151975.43	13151975.58	0.2671	0.0746
Mercury	31299-04-17 20:24 G	13152892.25	13152892.35	13152892.44	0.2660	0.1472
Mercury	31306-04-11 19:55 G	13155442.28	13155442.33	13155442.38	0.2660	0.2332
Mercury	31309-10-17 04:33 G	13156726.59	13156726.69	13156726.79	0.2671	0.2056
Mercury	31319-04-14 13:41 G	13160192.96	13160193.07	13160193.17	0.2660	0.0991
Mercury	31332-04-16 07:26 G	13164943.70	13164943.81	13164943.92	0.2660	0.0391
Mercury	31342-10-15 04:48 G	13168777.55	13168777.70	13168777.86	0.2672	0.0210
Mercury	31345-04-19 01:12 G	13169694.46	13169694.55	13169694.63	0.2660	0.1756
Mercury	31352-04-12 00:43 G	13172244.46	13172244.53	13172244.60	0.2659	0.2055
Mercury	31355-10-18 11:02 G	13173528.92	13173528.96	13173528.99	0.2671	0.2587
Mercury	31365-04-14 18:29 G	13176995.16	13176995.27	13176995.37	0.2660	0.0715
Mercury	31375-10-13 04:48 G	13180828.66	13180828.70	13180828.75	0.2672	0.2525
Venus	31376-02-28 11:17 G	13180966.81	13180966.97	13180967.12	0.2658	0.0553
Mercury	31378-04-17 12:14 G	13181745.90	13181746.01	13181746.11	0.2660	0.0668
Mercury	31388-10-15 11:31 G	13185579.82	13185579.98	13185580.13	0.2672	0.0349
Mercury	31391-04-20 06:00 G	13186496.68	13186496.75	13186496.82	0.2660	0.2045
Mercury	31398-04-13 05:31 G	13189046.65	13189046.73	13189046.81	0.2659	0.1778
Mercury	31411-04-16 23:17 G	13193797.36	13193797.47	13193797.58	0.2659	0.0432
Mercury	31421-10-14 11:31 G	13197630.88	13197630.98	13197631.08	0.2672	0.1963
Mercury	31424-04-18 17:02 G	13198548.10	13198548.21	13198548.31	0.2660	0.0944
Mercury	31434-10-17 18:00 G	13202382.10	13202382.25	13202382.39	0.2672	0.0888
Mercury	31437-04-21 10:48 G	13203298.90	13203298.95	13203299.00	0.2660	0.2332
Mercury	31444-04-14 10:19 G	13205848.84	13205848.93	13205849.02	0.2659	0.1500
Mercury	31457-04-17 04:05 G	13210599.56	13210599.67	13210599.78	0.2659	0.0175

Mercury	31467-10-15 18:14 G	13214433.12	13214433.26	13214433.39	0.2672	0.1399
Mercury	31470-04-19 21:50 G	13215350.31	13215350.41	13215350.50	0.2660	0.1228
Mercury	31477-04-12 21:36 G	13217900.37	13217900.40	13217900.42	0.2659	0.2558
Mercury	31480-10-18 00:29 G	13219184.39	13219184.52	13219184.65	0.2672	0.1434
Mercury	31483-04-22 15:36 G	13220101.14	13220101.15	13220101.17	0.2660	0.2619
Mercury	31490-04-15 15:07 G	13222651.03	13222651.13	13222651.23	0.2659	0.1221
Venus	31497-08-31 03:07 G	13225345.49	13225345.63	13225345.77	0.2673	0.1372
Mercury	31503-04-19 08:53 G	13227401.76	13227401.87	13227401.98	0.2659	0.0155
Venus	31505-08-29 17:02 G	13228265.17	13228265.21	13228265.26	0.2673	0.2567
Mercury	31513-10-17 00:43 G	13231235.38	13231235.53	13231235.67	0.2672	0.0852
Mercury	31516-04-21 02:38 G	13232152.52	13232152.61	13232152.70	0.2660	0.1509
Mercury	31523-04-15 02:24 G	13234702.54	13234702.60	13234702.65	0.2659	0.2279
Mercury	31526-10-20 06:57 G	13235986.69	13235986.79	13235986.89	0.2672	0.1976
Mercury	31536-04-16 19:55 G	13239453.23	13239453.33	13239453.43	0.2659	0.0942
Mercury	31549-04-19 13:41 G	13244203.96	13244204.07	13244204.18	0.2659	0.0422
Mercury	31559-10-18 07:12 G	13248037.65	13248037.80	13248037.96	0.2672	0.0301
Mercury	31562-04-22 07:26 G	13248954.73	13248954.81	13248954.89	0.2659	0.1798
Mercury	31569-04-15 07:12 G	13251504.73	13251504.80	13251504.87	0.2659	0.2004
Mercury	31572-10-20 13:26 G	13252789.01	13252789.06	13252789.11	0.2672	0.2503
Mercury	31582-04-18 00:43 G	13256255.42	13256255.53	13256255.64	0.2659	0.0660
Mercury	31592-10-15 07:12 G	13260088.78	13260088.80	13260088.82	0.2672	0.2640
Mercury	31595-04-20 18:29 G	13261006.16	13261006.27	13261006.38	0.2659	0.0701
Mercury	31605-10-18 13:41 G	13264839.92	13264840.07	13264840.23	0.2672	0.0248
Mercury	31608-04-22 12:14 G	13265756.94	13265757.01	13265757.08	0.2660	0.2082
Mercury	31615-04-16 12:00 G	13268306.91	13268307.00	13268307.08	0.2659	0.1727
Venus	31619-03-02 13:55 G	13269722.92	13269723.08	13269723.23	0.2658	0.0581
Mercury	31628-04-18 05:31 G	13273057.62	13273057.73	13273057.84	0.2659	0.0382
Mercury	31638-10-16 13:41 G	13276890.98	13276891.07	13276891.17	0.2672	0.2077
Mercury	31641-04-20 23:17 G	13277808.37	13277808.47	13277808.57	0.2659	0.0986
Mercury	31651-10-19 20:24 G	13281642.20	13281642.35	13281642.49	0.2672	0.0798

Mercury	31654-04-23 17:02 G	13282559.17	13282559.21	13282559.26	0.2659	0.2374
Mercury	31661-04-16 16:48 G	13285109.10	13285109.20	13285109.29	0.2659	0.1451
Mercury	31674-04-19 10:19 G	13289859.82	13289859.93	13289860.04	0.2659	0.0102
Mercury	31684-10-16 20:09 G	13293693.22	13293693.34	13293693.47	0.2672	0.1528
Mercury	31687-04-22 04:05 G	13294610.57	13294610.67	13294610.77	0.2659	0.1269
Mercury	31694-04-15 03:50 G	13297160.63	13297160.66	13297160.70	0.2659	0.2505
Mercury	31697-10-20 02:53 G	13298444.48	13298444.62	13298444.75	0.2672	0.1338
Mercury	31707-04-18 21:36 G	13301911.30	13301911.40	13301911.49	0.2659	0.1175
Mercury	31720-04-20 15:07 G	13306662.02	13306662.13	13306662.24	0.2659	0.0184
Mercury	31730-10-19 02:53 G	13310495.48	13310495.62	13310495.77	0.2672	0.0961
Mercury	31733-04-23 08:53 G	13311412.78	13311412.87	13311412.96	0.2659	0.1558
Mercury	31740-04-16 08:38 G	13313962.80	13313962.86	13313962.92	0.2659	0.2230
Venus	31740-09-02 02:53 G	13314101.48	13314101.62	13314101.77	0.2673	0.1117
Mercury	31743-10-22 09:21 G	13315246.78	13315246.89	13315247.00	0.2672	0.1875
Mercury	31753-04-19 02:24 G	13318713.49	13318713.60	13318713.70	0.2659	0.0900
Mercury	31766-04-21 19:55 G	13323464.22	13323464.33	13323464.44	0.2659	0.0469
Mercury	31776-10-19 09:36 G	13327297.74	13327297.90	13327298.05	0.2672	0.0416
Mercury	31779-04-24 13:41 G	13328215.00	13328215.07	13328215.15	0.2659	0.1840
Mercury	31786-04-17 13:26 G	13330764.99	13330765.06	13330765.14	0.2659	0.1955
Mercury	31789-10-22 15:50 G	13332049.10	13332049.16	13332049.22	0.2672	0.2421
Mercury	31799-04-20 06:57 G	13335515.69	13335515.79	13335515.90	0.2659	0.0626
Mercury	31812-04-23 00:43 G	13340266.43	13340266.53	13340266.64	0.2659	0.0747
Mercury	31822-10-21 16:05 G	13344100.02	13344100.17	13344100.33	0.2672	0.0152
Mercury	31825-04-25 18:43 G	13345017.21	13345017.28	13345017.34	0.2659	0.2128
Mercury	31832-04-18 18:14 G	13347567.18	13347567.26	13347567.35	0.2659	0.1676
Mercury	31845-04-21 12:00 G	13352317.89	13352318.00	13352318.11	0.2659	0.0343
Mercury	31855-10-19 15:50 G	13356151.07	13356151.16	13356151.25	0.2673	0.2200
Mercury	31858-04-24 05:31 G	13357068.63	13357068.73	13357068.84	0.2659	0.1032
Venus	31862-03-04 16:19 G	13358479.02	13358479.18	13358479.33	0.2658	0.0579
Mercury	31868-10-21 22:33 G	13360902.29	13360902.44	13360902.59	0.2672	0.0700

Mercury	31871-04-26 23:17 G	13361819.43	13361819.47	13361819.52	0.2659	0.2409
Mercury	31878-04-19 23:02 G	13364369.37	13364369.46	13364369.56	0.2659	0.1399
Mercury	31891-04-22 16:48 G	13369120.09	13369120.20	13369120.31	0.2659	0.0080
Mercury	31901-10-20 22:33 G	13372953.31	13372953.44	13372953.56	0.2673	0.1635
Mercury	31904-04-25 10:33 G	13373870.84	13373870.94	13373871.03	0.2659	0.1315
Mercury	31911-04-19 10:19 G	13376420.89	13376420.93	13376420.97	0.2658	0.2451
Mercury	31914-10-24 05:17 G	13377704.58	13377704.72	13377704.85	0.2672	0.1245
Mercury	31924-04-21 03:50 G	13381171.56	13381171.66	13381171.76	0.2659	0.1122
Mercury	31937-04-23 21:36 G	13385922.29	13385922.40	13385922.51	0.2659	0.0232
Mercury	31947-10-22 05:02 G	13389755.57	13389755.71	13389755.85	0.2673	0.1081
Mercury	31950-04-26 15:21 G	13390673.05	13390673.14	13390673.22	0.2659	0.1598
Mercury	31957-04-19 15:07 G	13393223.07	13393223.13	13393223.19	0.2658	0.2177
Mercury	31960-10-24 11:45 G	13394506.87	13394506.99	13394507.10	0.2673	0.1786
Mercury	31970-04-22 08:38 G	13397973.76	13397973.86	13397973.97	0.2658	0.0846
Mercury	31983-04-25 02:24 G	13402724.49	13402724.60	13402724.71	0.2659	0.0510
Venus	31983-09-05 02:24 G	13402857.44	13402857.60	13402857.75	0.2673	0.0835
Mercury	31993-10-22 11:45 G	13406557.83	13406557.99	13406558.14	0.2673	0.0518
Mercury	31996-04-26 20:09 G	13407475.26	13407475.34	13407475.41	0.2659	0.1882

33RD MILLENNIUM CE

This is a list of transits visible from Earth in the 33rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	32003-04-20 19:55 G	13410025.25	13410025.33	13410025.41	0.2658	0.1900		

Mercury	32006-10-25 18:14 G	13411309.19	13411309.26	13411309.34	0.2673	0.2328
Mercury	32016-04-22 13:26 G	13414775.96	13414776.06	13414776.17	0.2658	0.0571
Mercury	32029-04-25 07:12 G	13419526.69	13419526.80	13419526.90	0.2658	0.0791
Mercury	32039-10-23 18:14 G	13423360.11	13423360.26	13423360.42	0.2673	0.0049
Mercury	32042-04-28 00:57 G	13424277.47	13424277.54	13424277.60	0.2659	0.2162
Mercury	32049-04-21 00:43 G	13426827.44	13426827.53	13426827.62	0.2658	0.1627
Mercury	32062-04-23 18:14 G	13431578.15	13431578.26	13431578.37	0.2658	0.0296
Mercury	32072-10-20 18:00 G	13435411.18	13435411.25	13435411.33	0.2673	0.2320
Mercury	32075-04-26 12:00 G	13436328.90	13436329.00	13436329.10	0.2658	0.1072
Mercury	32085-10-24 00:57 G	13440162.39	13440162.54	13440162.69	0.2673	0.0596
Mercury	32088-04-28 05:45 G	13441079.70	13441079.74	13441079.78	0.2659	0.2448
Mercury	32095-04-22 05:31 G	13443629.64	13443629.73	13443629.82	0.2658	0.1350
Venus	32105-03-06 18:57 G	13447235.13	13447235.29	13447235.44	0.2658	0.0598
Mercury	32108-04-24 23:02 G	13448380.35	13448380.46	13448380.57	0.2658	0.0080
Mercury	32118-10-23 00:43 G	13452213.41	13452213.53	13452213.64	0.2673	0.1756
Mercury	32121-04-27 16:48 G	13453131.10	13453131.20	13453131.29	0.2658	0.1353
Mercury	32128-04-20 16:48 G	13455681.16	13455681.20	13455681.24	0.2658	0.2397
Mercury	32131-10-26 07:26 G	13456964.67	13456964.81	13456964.95	0.2673	0.1141
Mercury	32141-04-23 10:19 G	13460431.83	13460431.93	13460432.03	0.2658	0.1074
Mercury	32154-04-26 03:50 G	13465182.55	13465182.66	13465182.77	0.2658	0.0277
Mercury	32164-10-23 07:12 G	13469015.66	13469015.80	13469015.94	0.2673	0.1193
Mercury	32167-04-28 21:36 G	13469933.31	13469933.40	13469933.49	0.2658	0.1633
Mercury	32174-04-21 21:36 G	13472483.34	13472483.40	13472483.46	0.2658	0.2123
Mercury	32177-10-26 14:09 G	13473766.97	13473767.09	13473767.20	0.2673	0.1693
Mercury	32187-04-24 15:07 G	13477234.03	13477234.13	13477234.24	0.2658	0.0793
Mercury	32200-04-27 08:38 G	13481984.76	13481984.86	13481984.97	0.2658	0.0559
Mercury	32210-10-25 13:55 G	13485817.93	13485818.08	13485818.23	0.2673	0.0635
Mercury	32213-04-30 02:24 G	13486735.52	13486735.60	13486735.68	0.2658	0.1915
Mercury	32220-04-23 02:24 G	13489285.52	13489285.60	13489285.68	0.2658	0.1850
Mercury	32223-10-28 20:38 G	13490569.28	13490569.36	13490569.44	0.2673	0.2235

Venus	32226-09-07 02:09 G	13491613.43	13491613.59	13491613.75	0.2673	0.0587
Mercury	32233-04-25 19:55 G	13494036.22	13494036.33	13494036.44	0.2658	0.0516
Mercury	32246-04-28 13:26 G	13498786.96	13498787.06	13498787.17	0.2658	0.0838
Mercury	32256-10-25 20:24 G	13502620.20	13502620.35	13502620.51	0.2673	0.0108
Mercury	32259-05-01 07:12 G	13503537.74	13503537.80	13503537.86	0.2658	0.2204
Mercury	32266-04-24 07:12 G	13506087.71	13506087.80	13506087.89	0.2658	0.1575
Mercury	32279-04-27 00:43 G	13510838.42	13510838.53	13510838.64	0.2658	0.0239
Mercury	32289-10-23 19:55 G	13514671.28	13514671.33	13514671.39	0.2673	0.2457
Mercury	32292-04-28 18:14 G	13515589.16	13515589.26	13515589.36	0.2658	0.1117
Mercury	32299-04-22 18:29 G	13518139.25	13518139.27	13518139.28	0.2658	0.2618
Mercury	32302-10-28 03:07 G	13519422.47	13519422.63	13519422.78	0.2673	0.0474
Mercury	32305-05-02 12:00 G	13520339.97	13520340.00	13520340.04	0.2658	0.2489
Mercury	32312-04-25 12:00 G	13522889.90	13522890.00	13522890.09	0.2658	0.1302
Mercury	32325-04-28 05:31 G	13527640.62	13527640.73	13527640.84	0.2658	0.0047
Mercury	32335-10-26 02:38 G	13531473.50	13531473.61	13531473.72	0.2674	0.1886
Mercury	32338-04-30 23:02 G	13532391.37	13532391.46	13532391.56	0.2658	0.1398
Mercury	32345-04-23 23:17 G	13534941.42	13534941.47	13534941.52	0.2658	0.2349
Venus	32348-03-08 21:21 G	13535991.24	13535991.39	13535991.55	0.2658	0.0629
Mercury	32348-10-28 09:36 G	13536224.76	13536224.90	13536225.05	0.2673	0.1033
Mercury	32358-04-26 16:48 G	13539692.10	13539692.20	13539692.30	0.2658	0.1025
Mercury	32371-04-29 10:19 G	13544442.82	13544442.93	13544443.04	0.2658	0.0316
Mercury	32381-10-26 09:21 G	13548275.75	13548275.89	13548276.03	0.2673	0.1319
Mercury	32384-05-01 04:05 G	13549193.58	13549193.67	13549193.75	0.2658	0.1677
Mercury	32391-04-25 04:05 G	13551743.60	13551743.67	13551743.73	0.2658	0.2075
Mercury	32394-10-29 16:19 G	13553027.05	13553027.18	13553027.30	0.2673	0.1583
Mercury	32404-04-26 21:36 G	13556494.29	13556494.40	13556494.50	0.2658	0.0758
Mercury	32417-04-29 15:07 G	13561245.02	13561245.13	13561245.24	0.2658	0.0596
Mercury	32427-10-27 16:05 G	13565078.02	13565078.17	13565078.32	0.2674	0.0756
Mercury	32430-05-02 08:53 G	13565995.79	13565995.87	13565995.94	0.2658	0.1959
Mercury	32437-04-25 08:53 G	13568545.79	13568545.87	13568545.95	0.2658	0.1804

Mercury	32440-10-29 22:48 G	13569829.36	13569829.45	13569829.55	0.2673	0.2138
Mercury	32450-04-28 02:24 G	13573296.49	13573296.60	13573296.70	0.2658	0.0485
Mercury	32463-04-30 19:55 G	13578047.23	13578047.33	13578047.43	0.2658	0.0872
Venus	32469-09-08 01:26 G	13580369.40	13580369.56	13580369.72	0.2673	0.0299
Mercury	32473-10-27 22:33 G	13581880.29	13581880.44	13581880.60	0.2674	0.0201
Mercury	32476-05-02 13:41 G	13582798.01	13582798.07	13582798.12	0.2658	0.2241
Mercury	32483-04-26 13:41 G	13585347.98	13585348.07	13585348.16	0.2658	0.1530
Mercury	32496-04-28 07:12 G	13590098.69	13590098.80	13590098.91	0.2658	0.0221
Mercury	32506-10-26 22:05 G	13593931.38	13593931.42	13593931.46	0.2674	0.2590
Mercury	32509-05-02 00:43 G	13594849.43	13594849.53	13594849.63	0.2658	0.1154
Mercury	32516-04-25 00:57 G	13597399.51	13597399.54	13597399.56	0.2657	0.2570
Mercury	32519-10-30 05:17 G	13598682.57	13598682.72	13598682.88	0.2674	0.0366
Mercury	32522-05-04 18:29 G	13599600.24	13599600.27	13599600.30	0.2658	0.2521
Mercury	32529-04-27 18:14 G	13602150.17	13602150.26	13602150.36	0.2658	0.1257
Mercury	32542-04-30 12:00 G	13606900.89	13606901.00	13606901.11	0.2658	0.0114
Mercury	32552-10-27 04:48 G	13610733.59	13610733.70	13610733.80	0.2674	0.2025
Mercury	32555-05-03 05:31 G	13611651.64	13611651.73	13611651.82	0.2658	0.1435
Mercury	32562-04-26 05:45 G	13614201.68	13614201.74	13614201.79	0.2657	0.2299
Mercury	32565-10-30 12:00 G	13615484.85	13615485.00	13615485.14	0.2674	0.0922
Mercury	32575-04-28 23:02 G	13618952.36	13618952.46	13618952.57	0.2657	0.0986
Mercury	32588-04-30 16:48 G	13623703.09	13623703.20	13623703.31	0.2658	0.0370
Venus	32591-03-10 23:45 G	13624747.34	13624747.49	13624747.65	0.2658	0.0616
Mercury	32598-10-28 11:17 G	13627535.84	13627535.97	13627536.10	0.2674	0.1460
Mercury	32601-05-04 10:19 G	13628453.85	13628453.93	13628454.01	0.2658	0.1718
Mercury	32608-04-27 10:19 G	13631003.87	13631003.93	13631004.00	0.2657	0.2034
Mercury	32611-11-01 18:29 G	13632287.14	13632287.27	13632287.40	0.2674	0.1472
Mercury	32621-04-30 03:50 G	13635754.56	13635754.66	13635754.77	0.2657	0.0710
Mercury	32634-05-02 21:36 G	13640505.29	13640505.40	13640505.50	0.2657	0.0641
Mercury	32644-10-29 18:00 G	13644338.10	13644338.25	13644338.40	0.2674	0.0891
Mercury	32647-05-05 15:07 G	13645256.06	13645256.13	13645256.20	0.2658	0.1996

Mercury	32654-04-28 15:07 G	13647806.05	13647806.13	13647806.22	0.2657	0.1757
Mercury	32657-11-02 00:57 G	13649089.44	13649089.54	13649089.64	0.2674	0.2015
Mercury	32667-05-01 08:38 G	13652556.76	13652556.86	13652556.97	0.2657	0.0441
Mercury	32680-05-03 02:24 G	13657307.49	13657307.60	13657307.70	0.2657	0.0919
Mercury	32690-10-31 00:43 G	13661140.38	13661140.53	13661140.69	0.2674	0.0319
Mercury	32693-05-05 19:55 G	13662058.28	13662058.33	13662058.39	0.2657	0.2276
Mercury	32700-04-29 19:55 G	13664608.24	13664608.33	13664608.42	0.2657	0.1485
Mercury	32703-11-04 07:41 G	13665891.78	13665891.82	13665891.86	0.2674	0.2573
Venus	32712-09-11 01:12 G	13669125.39	13669125.55	13669125.71	0.2673	0.0051
Mercury	32713-05-02 13:26 G	13669358.95	13669359.06	13669359.17	0.2657	0.0175
Mercury	32726-05-05 07:12 G	13674109.70	13674109.80	13674109.89	0.2657	0.1196
Mercury	32733-04-28 07:26 G	13676659.78	13676659.81	13676659.84	0.2657	0.2523
Mercury	32736-11-01 07:26 G	13677942.65	13677942.81	13677942.96	0.2674	0.0246
Mercury	32739-05-08 00:43 G	13678860.50	13678860.53	13678860.56	0.2657	0.2556
Mercury	32746-05-01 00:43 G	13681410.44	13681410.53	13681410.63	0.2657	0.1212
Mercury	32759-05-03 18:14 G	13686161.15	13686161.26	13686161.37	0.2657	0.0145
Mercury	32769-10-30 06:43 G	13689993.69	13689993.78	13689993.87	0.2674	0.2162
Mercury	32772-05-05 12:00 G	13690911.90	13690912.00	13690912.09	0.2657	0.1478
Mercury	32779-04-29 12:14 G	13693461.95	13693462.01	13693462.06	0.2657	0.2255
Mercury	32782-11-02 13:55 G	13694744.94	13694745.08	13694745.23	0.2674	0.0805
Mercury	32792-05-01 05:31 G	13698212.63	13698212.73	13698212.84	0.2657	0.0937
Mercury	32805-05-03 23:02 G	13702963.35	13702963.46	13702963.57	0.2657	0.0410
Mercury	32815-10-31 13:26 G	13706795.93	13706796.06	13706796.18	0.2674	0.1589
Mercury	32818-05-06 16:48 G	13707714.11	13707714.20	13707714.28	0.2657	0.1752
Mercury	32825-04-29 17:02 G	13710264.13	13710264.21	13710264.28	0.2657	0.1980
Mercury	32828-11-02 20:38 G	13711547.22	13711547.36	13711547.49	0.2674	0.1351
Venus	32834-03-13 02:38 G	13713503.45	13713503.61	13713503.76	0.2658	0.0657
Mercury	32838-05-02 10:19 G	13715014.83	13715014.93	13715015.04	0.2657	0.0663
Mercury	32851-05-05 03:50 G	13719765.56	13719765.66	13719765.77	0.2657	0.0679
Mercury	32861-10-31 20:09 G	13723598.19	13723598.34	13723598.48	0.2674	0.1020

Mercury	32864-05-06 21:36 G	13724516.33	13724516.40	13724516.47	0.2657	0.2034
Mercury	32871-04-30 21:36 G	13727066.32	13727066.40	13727066.49	0.2657	0.1711
Mercury	32874-11-04 03:07 G	13728349.53	13728349.63	13728349.74	0.2674	0.1912
Mercury	32884-05-02 15:07 G	13731817.02	13731817.13	13731817.24	0.2657	0.0386
Mercury	32897-05-05 08:38 G	13736567.76	13736567.86	13736567.96	0.2657	0.0958
Mercury	32907-11-03 02:38 G	13740400.46	13740400.61	13740400.77	0.2674	0.0460
Mercury	32910-05-09 02:24 G	13741318.54	13741318.60	13741318.65	0.2657	0.2311
Mercury	32917-05-02 02:24 G	13743868.51	13743868.60	13743868.70	0.2657	0.1438
Mercury	32920-11-05 09:50 G	13745151.85	13745151.91	13745151.97	0.2674	0.2457
Mercury	32930-05-04 19:55 G	13748619.22	13748619.33	13748619.44	0.2657	0.0115
Mercury	32943-05-07 13:26 G	13753369.96	13753370.06	13753370.16	0.2657	0.1234
Mercury	32950-04-30 13:55 G	13755920.04	13755920.08	13755920.11	0.2657	0.2478
Mercury	32953-11-03 09:21 G	13757202.73	13757202.89	13757203.05	0.2674	0.0103
Venus	32955-09-13 00:29 G	13757881.36	13757881.52	13757881.68	0.2673	0.0259
Mercury	32956-05-09 07:12 G	13758120.78	13758120.80	13758120.82	0.2657	0.2594
Mercury	32963-05-03 07:12 G	13760670.70	13760670.80	13760670.90	0.2657	0.1166
Mercury	32976-05-05 00:43 G	13765421.42	13765421.53	13765421.64	0.2657	0.0167
Mercury	32986-11-01 08:38 G	13769253.78	13769253.86	13769253.94	0.2674	0.2303
Mercury	32989-05-07 18:14 G	13770172.17	13770172.26	13770172.35	0.2657	0.1509
Mercury	32996-04-30 18:43 G	13772722.22	13772722.28	13772722.33	0.2657	0.2207
Mercury	32999-11-04 16:05 G	13774005.01	13774005.17	13774005.32	0.2674	0.0669

34TH MILLENNIUM CE

This is a list of transits visible from Earth in the 34th millennium CE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
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TRANSIT

TIME

Mercury	33009-05-04 12:00 G	13777472.90	13777473.00	13777473.10	0.2657	0.0891
Mercury	33022-05-07 05:31 G	13782223.62	13782223.73	13782223.84	0.2657	0.0439
Mercury	33032-11-02 15:21 G	13786056.02	13786056.14	13786056.26	0.2675	0.1728
Mercury	33035-05-09 23:02 G	13786974.38	13786974.46	13786974.54	0.2657	0.1788
Mercury	33042-05-02 23:17 G	13789524.40	13789524.47	13789524.55	0.2657	0.1937
Mercury	33045-11-05 22:48 G	13790807.31	13790807.45	13790807.59	0.2674	0.1235
Mercury	33055-05-05 16:48 G	13794275.09	13794275.20	13794275.31	0.2657	0.0617
Mercury	33068-05-07 10:19 G	13799025.82	13799025.93	13799026.03	0.2657	0.0717
Venus	33077-03-15 04:48 G	13802259.55	13802259.70	13802259.85	0.2658	0.0642
Mercury	33078-11-03 22:05 G	13802858.27	13802858.42	13802858.56	0.2675	0.1168
Mercury	33081-05-10 03:50 G	13803776.59	13803776.66	13803776.73	0.2657	0.2064
Mercury	33088-05-03 04:05 G	13806326.59	13806326.67	13806326.76	0.2657	0.1663
Mercury	33091-11-07 05:17 G	13807609.61	13807609.72	13807609.84	0.2674	0.1790
Mercury	33101-05-06 21:36 G	13811077.29	13811077.40	13811077.51	0.2657	0.0343
Mercury	33114-05-09 15:07 G	13815828.03	13815828.13	13815828.23	0.2657	0.0991
Mercury	33124-11-05 04:33 G	13819660.54	13819660.69	13819660.85	0.2675	0.0601
Mercury	33127-05-12 08:38 G	13820578.81	13820578.86	13820578.91	0.2657	0.2346
Mercury	33134-05-05 08:53 G	13823128.78	13823128.87	13823128.96	0.2657	0.1392
Mercury	33137-11-08 12:00 G	13824411.93	13824412.00	13824412.07	0.2674	0.2339
Mercury	33147-05-08 02:24 G	13827879.49	13827879.60	13827879.71	0.2657	0.0080
Mercury	33160-05-09 19:55 G	13832630.23	13832630.33	13832630.43	0.2657	0.1270
Mercury	33167-05-03 20:24 G	13835180.31	13835180.35	13835180.39	0.2656	0.2428
Mercury	33170-11-06 11:17 G	13836462.81	13836462.97	13836463.13	0.2675	0.0053
Mercury	33173-05-12 13:26 G	13837381.05	13837381.06	13837381.08	0.2657	0.2624
Mercury	33180-05-05 13:41 G	13839930.97	13839931.07	13839931.17	0.2656	0.1118
Mercury	33193-05-08 07:12 G	13844681.69	13844681.80	13844681.91	0.2657	0.0212
Venus	33198-09-15 00:14 G	13846637.35	13846637.51	13846637.66	0.2673	0.0509
Mercury	33203-11-04 10:19 G	13848513.88	13848513.93	13848513.99	0.2675	0.2464

Mercury	33206-05-11 00:43 G	13849432.44	13849432.53	13849432.62	0.2657	0.1547
Mercury	33213-05-04 01:12 G	13851982.48	13851982.55	13851982.61	0.2656	0.2160
Mercury	33216-11-06 18:00 G	13853265.10	13853265.25	13853265.41	0.2675	0.0538
Mercury	33226-05-06 18:29 G	13856733.17	13856733.27	13856733.37	0.2657	0.0848
Mercury	33239-05-09 12:00 G	13861483.89	13861484.00	13861484.11	0.2656	0.0484
Mercury	33249-11-04 17:02 G	13865316.10	13865316.21	13865316.32	0.2675	0.1893
Mercury	33252-05-11 05:31 G	13866234.65	13866234.73	13866234.81	0.2657	0.1825
Mercury	33259-05-05 05:45 G	13868784.67	13868784.74	13868784.82	0.2656	0.1891
Mercury	33262-11-08 00:43 G	13870067.38	13870067.53	13870067.67	0.2675	0.1096
Mercury	33272-05-06 23:17 G	13873535.36	13873535.47	13873535.58	0.2656	0.0577
Mercury	33285-05-09 16:48 G	13878286.09	13878286.20	13878286.30	0.2656	0.0757
Mercury	33295-11-06 00:00 G	13882118.36	13882118.50	13882118.63	0.2675	0.1311
Mercury	33298-05-12 10:19 G	13883036.86	13883036.93	13883036.99	0.2656	0.2103
Mercury	33305-05-06 10:33 G	13885586.86	13885586.94	13885587.03	0.2656	0.1622
Mercury	33308-11-09 07:26 G	13886869.69	13886869.81	13886869.93	0.2675	0.1657
Mercury	33318-05-09 04:05 G	13890337.56	13890337.67	13890337.78	0.2656	0.0313
Venus	33320-03-17 07:26 G	13891015.66	13891015.81	13891015.97	0.2658	0.0679
Mercury	33331-05-11 21:36 G	13895088.30	13895088.40	13895088.50	0.2656	0.1034
Mercury	33338-05-04 22:05 G	13897638.41	13897638.42	13897638.42	0.2656	0.2649
Mercury	33341-11-07 06:43 G	13898920.62	13898920.78	13898920.93	0.2675	0.0738
Mercury	33344-05-13 15:07 G	13899839.08	13899839.13	13899839.17	0.2656	0.2378
Mercury	33351-05-07 15:21 G	13902389.05	13902389.14	13902389.23	0.2656	0.1350
Mercury	33354-11-10 13:55 G	13903672.00	13903672.08	13903672.17	0.2675	0.2218
Mercury	33364-05-09 08:53 G	13907139.76	13907139.87	13907139.98	0.2656	0.0082
Mercury	33377-05-12 02:09 G	13911890.50	13911890.59	13911890.69	0.2656	0.1309
Mercury	33384-05-05 02:53 G	13914440.57	13914440.62	13914440.66	0.2656	0.2383
Mercury	33387-11-08 13:26 G	13915722.90	13915723.06	13915723.22	0.2675	0.0170
Mercury	33397-05-07 20:09 G	13919191.24	13919191.34	13919191.44	0.2656	0.1077
Mercury	33410-05-11 13:41 G	13923941.96	13923942.07	13923942.18	0.2656	0.0254
Mercury	33420-11-06 12:14 G	13927773.98	13927774.01	13927774.04	0.2675	0.2618

Mercury	33423-05-14 07:12 G	13928692.71	13928692.80	13928692.88	0.2656	0.1586
Mercury	33430-05-07 07:26 G	13931242.75	13931242.81	13931242.88	0.2656	0.2116
Mercury	33433-11-09 19:55 G	13932525.18	13932525.33	13932525.49	0.2675	0.0403
Venus	33441-09-16 23:45 G	13935393.33	13935393.49	13935393.64	0.2673	0.0787
Mercury	33443-05-10 00:57 G	13935993.44	13935993.54	13935993.64	0.2656	0.0805
Mercury	33456-05-11 18:29 G	13940744.16	13940744.27	13940744.37	0.2656	0.0528
Mercury	33466-11-07 18:57 G	13944576.19	13944576.29	13944576.39	0.2675	0.2041
Mercury	33469-05-14 11:45 G	13945494.92	13945494.99	13945495.07	0.2656	0.1863
Mercury	33476-05-07 12:14 G	13948044.94	13948045.01	13948045.09	0.2656	0.1848
Mercury	33479-11-11 02:38 G	13949327.47	13949327.61	13949327.76	0.2675	0.0969
Mercury	33489-05-10 05:45 G	13952795.63	13952795.74	13952795.84	0.2656	0.0536
Mercury	33502-05-13 23:17 G	13957546.36	13957546.47	13957546.57	0.2656	0.0804
Mercury	33512-11-09 01:41 G	13961378.44	13961378.57	13961378.71	0.2675	0.1466
Mercury	33515-05-16 16:33 G	13962297.13	13962297.19	13962297.26	0.2656	0.2140
Mercury	33522-05-09 17:02 G	13964847.13	13964847.21	13964847.30	0.2656	0.1577
Mercury	33525-11-12 09:21 G	13966129.76	13966129.89	13966130.02	0.2675	0.1524
Mercury	33535-05-12 10:33 G	13969597.83	13969597.94	13969598.05	0.2656	0.0268
Mercury	33548-05-14 03:50 G	13974348.56	13974348.66	13974348.76	0.2656	0.1070
Mercury	33555-05-08 04:33 G	13976898.67	13976898.69	13976898.70	0.2656	0.2609
Mercury	33558-11-10 08:24 G	13978180.70	13978180.85	13978181.00	0.2675	0.0889
Mercury	33561-05-16 21:21 G	13979099.35	13979099.39	13979099.44	0.2656	0.2417
Venus	33563-03-20 09:50 G	13979771.76	13979771.91	13979772.07	0.2658	0.0684
Mercury	33568-05-09 21:50 G	13981649.32	13981649.41	13981649.51	0.2656	0.1304
Mercury	33571-11-13 16:05 G	13982932.07	13982932.17	13982932.27	0.2675	0.2086
Mercury	33581-05-12 15:21 G	13986400.03	13986400.14	13986400.25	0.2656	0.0090
Mercury	33594-05-15 08:38 G	13991150.77	13991150.86	13991150.96	0.2656	0.1347
Mercury	33601-05-08 09:21 G	13993700.84	13993700.89	13993700.94	0.2656	0.2341
Mercury	33604-11-10 15:07 G	13994982.98	13994983.13	13994983.29	0.2675	0.0320
Mercury	33614-05-11 02:38 G	13998451.51	13998451.61	13998451.71	0.2656	0.1036
Mercury	33617-11-13 22:48 G	13999734.43	13999734.45	13999734.47	0.2675	0.2645

Mercury	33627-05-13 19:55 G	14003202.23	14003202.33	14003202.44	0.2656	0.0302
Mercury	33640-05-15 13:26 G	14007952.98	14007953.06	14007953.15	0.2656	0.1620
Mercury	33647-05-09 14:09 G	14010503.02	14010503.09	14010503.15	0.2656	0.2074
Mercury	33650-11-11 22:05 G	14011785.26	14011785.42	14011785.57	0.2675	0.0274
Mercury	33660-05-11 07:26 G	14015253.70	14015253.81	14015253.91	0.2656	0.0766
Mercury	33673-05-14 00:43 G	14020004.43	14020004.53	14020004.64	0.2656	0.0561
Mercury	33683-11-09 20:53 G	14023836.28	14023836.37	14023836.46	0.2675	0.2193
Venus	33684-09-17 23:17 G	14024149.32	14024149.47	14024149.61	0.2673	0.1042
Mercury	33686-05-16 18:14 G	14024755.19	14024755.26	14024755.34	0.2656	0.1896
Mercury	33693-05-09 18:43 G	14027305.21	14027305.28	14027305.36	0.2656	0.1802
Mercury	33696-11-12 04:33 G	14028587.54	14028587.69	14028587.84	0.2675	0.0826
Mercury	33706-05-13 12:14 G	14032055.90	14032056.01	14032056.11	0.2656	0.0496
Mercury	33719-05-16 05:31 G	14036806.63	14036806.73	14036806.84	0.2656	0.0831
Mercury	33729-11-11 03:36 G	14040638.52	14040638.65	14040638.78	0.2676	0.1614
Mercury	33732-05-17 23:02 G	14041557.40	14041557.46	14041557.52	0.2656	0.2169
Mercury	33739-05-11 23:31 G	14044107.39	14044107.48	14044107.57	0.2656	0.1531
Mercury	33742-11-14 11:17 G	14045389.84	14045389.97	14045390.11	0.2675	0.1398
Mercury	33752-05-13 17:02 G	14048858.10	14048858.21	14048858.31	0.2656	0.0238
Mercury	33765-05-16 10:19 G	14053608.83	14053608.93	14053609.03	0.2656	0.1109
Mercury	33772-05-09 11:02 G	14056158.94	14056158.96	14056158.99	0.2656	0.2560
Mercury	33775-11-12 10:19 G	14057440.78	14057440.93	14057441.08	0.2676	0.1040
Mercury	33778-05-19 03:50 G	14058359.62	14058359.66	14058359.70	0.2656	0.2446
Mercury	33785-05-12 04:19 G	14060909.59	14060909.68	14060909.78	0.2656	0.1262
Mercury	33788-11-14 18:00 G	14062192.15	14062192.25	14062192.36	0.2676	0.1957
Mercury	33798-05-14 21:36 G	14065660.30	14065660.40	14065660.51	0.2656	0.0121
Venus	33806-03-22 12:29 G	14068527.87	14068528.02	14068528.18	0.2659	0.0712
Mercury	33811-05-18 15:07 G	14070411.04	14070411.13	14070411.23	0.2656	0.1383
Mercury	33818-05-11 15:50 G	14072961.11	14072961.16	14072961.21	0.2656	0.2295
Mercury	33821-11-13 17:02 G	14074243.05	14074243.21	14074243.37	0.2676	0.0465
Mercury	33831-05-14 09:07 G	14077711.78	14077711.88	14077711.98	0.2656	0.0994

Mercury	33834-11-17 00:43 G	14078994.48	14078994.53	14078994.58	0.2676	0.2517
Mercury	33844-05-16 02:24 G	14082462.50	14082462.60	14082462.71	0.2656	0.0335
Mercury	33857-05-18 19:55 G	14087213.25	14087213.33	14087213.42	0.2656	0.1656
Mercury	33864-05-11 20:38 G	14089763.29	14089763.36	14089763.43	0.2656	0.2025
Mercury	33867-11-14 23:45 G	14091045.33	14091045.49	14091045.65	0.2676	0.0102
Mercury	33877-05-14 13:55 G	14094513.97	14094514.08	14094514.18	0.2656	0.0724
Mercury	33890-05-17 07:12 G	14099264.70	14099264.80	14099264.91	0.2656	0.0600
Mercury	33900-11-12 22:33 G	14103096.37	14103096.44	14103096.51	0.2676	0.2357
Mercury	33903-05-21 00:43 G	14104015.46	14104015.53	14104015.60	0.2656	0.1928
Mercury	33910-05-14 01:12 G	14106565.47	14106565.55	14106565.63	0.2656	0.1762
Mercury	33913-11-16 06:29 G	14107847.62	14107847.77	14107847.93	0.2676	0.0686
Venus	33919-09-24 08:53 G	14109985.84	14109985.87	14109985.90	0.2673	0.2621
Mercury	33923-05-16 18:43 G	14111316.17	14111316.28	14111316.38	0.2656	0.0459
Venus	33927-09-21 22:48 G	14112905.31	14112905.45	14112905.59	0.2672	0.1290
Mercury	33936-05-18 12:00 G	14116066.90	14116067.00	14116067.11	0.2655	0.0872
Mercury	33946-11-14 05:17 G	14119898.61	14119898.72	14119898.84	0.2676	0.1773
Mercury	33949-05-21 05:31 G	14120817.67	14120817.73	14120817.79	0.2655	0.2203
Mercury	33956-05-14 06:00 G	14123367.66	14123367.75	14123367.84	0.2656	0.1490
Mercury	33959-11-17 13:12 G	14124649.91	14124650.05	14124650.19	0.2676	0.1254
Mercury	33969-05-16 23:31 G	14128118.37	14128118.48	14128118.58	0.2655	0.0210
Mercury	33982-05-19 16:48 G	14132869.10	14132869.20	14132869.30	0.2655	0.1142
Mercury	33989-05-12 17:31 G	14135419.20	14135419.23	14135419.26	0.2655	0.2515
Mercury	33992-11-14 12:14 G	14136700.86	14136701.01	14136701.15	0.2676	0.1198
Mercury	33995-05-22 10:19 G	14137619.89	14137619.93	14137619.97	0.2655	0.2479

35TH MILLENNIUM CE

This is a list of transits visible from Earth in the 35th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	34002-05-15 10:48	G	14140169.85	14140169.95	14140170.05	0.2656	0.1222	
Mercury	34005-11-17 19:55	G	14141452.22	14141452.33	14141452.45	0.2676	0.1826	
Mercury	34015-05-18 04:05	G	14144920.57	14144920.67	14144920.78	0.2656	0.0144	
Mercury	34028-05-19 21:36	G	14149671.31	14149671.40	14149671.49	0.2655	0.1413	
Mercury	34035-05-13 22:19	G	14152221.37	14152221.43	14152221.49	0.2655	0.2246	
Mercury	34038-11-15 18:57	G	14153503.13	14153503.29	14153503.44	0.2676	0.0620	
Mercury	34048-05-15 15:36	G	14156972.05	14156972.15	14156972.25	0.2655	0.0949	
Venus	34049-03-23 15:07	G	14157283.98	14157284.13	14157284.28	0.2659	0.0732	
Mercury	34051-11-19 02:38	G	14158254.54	14158254.61	14158254.68	0.2676	0.2377	
Mercury	34061-05-18 08:53	G	14161722.77	14161722.87	14161722.98	0.2655	0.0373	
Mercury	34074-05-21 02:24	G	14166473.52	14166473.60	14166473.68	0.2655	0.1688	
Mercury	34081-05-14 03:07	G	14169023.56	14169023.63	14169023.70	0.2655	0.1984	
Mercury	34084-11-16 01:41	G	14170305.41	14170305.57	14170305.73	0.2676	0.0040	
Mercury	34094-05-16 20:24	G	14173774.24	14173774.35	14173774.45	0.2655	0.0681	
Mercury	34107-05-20 13:41	G	14178524.97	14178525.07	14178525.18	0.2655	0.0639	
Mercury	34117-11-15 00:14	G	14182356.46	14182356.51	14182356.56	0.2676	0.2530	
Mercury	34120-05-22 07:12	G	14183275.73	14183275.80	14183275.87	0.2655	0.1963	
Mercury	34127-05-16 07:55	G	14185825.74	14185825.83	14185825.91	0.2655	0.1717	
Mercury	34130-11-18 08:24	G	14187107.69	14187107.85	14187108.01	0.2676	0.0529	
Mercury	34140-05-18 01:12	G	14190576.44	14190576.55	14190576.66	0.2655	0.0415	
Mercury	34153-05-20 18:29	G	14195327.17	14195327.27	14195327.37	0.2655	0.0906	
Venus	34162-09-25 08:24	G	14198741.77	14198741.85	14198741.92	0.2673	0.2344	
Mercury	34163-11-16 06:57	G	14199158.69	14199158.79	14199158.90	0.2676	0.1953	
Mercury	34166-05-23 12:00	G	14200077.94	14200078.00	14200078.05	0.2655	0.2239	
Venus	34170-09-22 22:19	G	14201661.31	14201661.43	14201661.56	0.2672	0.1555	

Mercury	34173-05-16 12:29 G	14202627.93	14202628.02	14202628.11	0.2655	0.1453
Mercury	34176-11-18 15:07 G	14203909.99	14203910.13	14203910.27	0.2676	0.1101
Mercury	34186-05-19 06:00 G	14207378.64	14207378.75	14207378.85	0.2655	0.0172
Mercury	34199-05-21 23:17 G	14212129.37	14212129.47	14212129.57	0.2655	0.1177
Mercury	34206-05-16 00:00 G	14214679.47	14214679.50	14214679.54	0.2655	0.2474
Mercury	34209-11-17 13:55 G	14215960.94	14215961.08	14215961.22	0.2676	0.1359
Mercury	34212-05-24 16:48 G	14216880.17	14216880.20	14216880.23	0.2655	0.2511
Mercury	34219-05-18 17:17 G	14219430.13	14219430.22	14219430.32	0.2655	0.1180
Mercury	34222-11-20 21:50 G	14220712.29	14220712.41	14220712.53	0.2676	0.1663
Mercury	34232-05-20 10:33 G	14224180.84	14224180.94	14224181.05	0.2655	0.0163
Mercury	34245-05-23 04:05 G	14228931.58	14228931.67	14228931.76	0.2655	0.1448
Mercury	34252-05-16 04:48 G	14231481.64	14231481.70	14231481.76	0.2655	0.2207
Mercury	34255-11-18 20:38 G	14232763.21	14232763.36	14232763.52	0.2676	0.0775
Mercury	34265-05-18 22:05 G	14236232.32	14236232.42	14236232.52	0.2655	0.0914
Mercury	34268-11-21 04:33 G	14237514.61	14237514.69	14237514.78	0.2676	0.2245
Mercury	34278-05-21 15:21 G	14240983.03	14240983.14	14240983.25	0.2655	0.0404
Mercury	34291-05-24 08:53 G	14245733.79	14245733.87	14245733.95	0.2655	0.1722
Venus	34292-03-25 17:45 G	14246040.09	14246040.24	14246040.39	0.2659	0.0757
Mercury	34298-05-17 09:36 G	14248283.83	14248283.90	14248283.97	0.2655	0.1940
Mercury	34301-11-20 03:21 G	14249565.48	14249565.64	14249565.80	0.2676	0.0205
Mercury	34311-05-21 02:53 G	14253034.51	14253034.62	14253034.73	0.2655	0.0642
Mercury	34324-05-22 20:09 G	14257785.24	14257785.34	14257785.45	0.2655	0.0667
Mercury	34337-05-25 13:41 G	14262536.00	14262536.07	14262536.14	0.2655	0.1996
Mercury	34344-05-18 14:24 G	14265086.01	14265086.10	14265086.18	0.2655	0.1676
Mercury	34347-11-21 10:19 G	14266367.77	14266367.93	14266368.08	0.2676	0.0384
Mercury	34357-05-21 07:41 G	14269836.71	14269836.82	14269836.93	0.2655	0.0380
Mercury	34370-05-24 00:57 G	14274587.44	14274587.54	14274587.64	0.2655	0.0941
Mercury	34380-11-18 08:53 G	14278418.77	14278418.87	14278418.96	0.2676	0.2113
Mercury	34383-05-26 18:29 G	14279338.21	14279338.27	14279338.32	0.2655	0.2267
Mercury	34390-05-19 19:12 G	14281888.20	14281888.30	14281888.39	0.2655	0.1408

Mercury	34393-11-21 17:02 G	14283170.06	14283170.21	14283170.35	0.2676	0.0949
Mercury	34403-05-22 12:29 G	14286638.91	14286639.02	14286639.12	0.2655	0.0142
Venus	34405-09-27 08:09 G	14287497.74	14287497.84	14287497.94	0.2672	0.2112
Venus	34413-09-24 22:05 G	14290417.30	14290417.42	14290417.54	0.2672	0.1798
Mercury	34416-05-24 05:45 G	14291389.64	14291389.74	14291389.84	0.2655	0.1211
Mercury	34423-05-18 06:43 G	14293939.73	14293939.78	14293939.82	0.2655	0.2434
Mercury	34426-11-19 15:36 G	14295221.02	14295221.15	14295221.28	0.2676	0.1530
Mercury	34429-05-26 23:17 G	14296140.44	14296140.47	14296140.49	0.2655	0.2544
Mercury	34436-05-19 23:45 G	14298690.40	14298690.49	14298690.59	0.2655	0.1145
Mercury	34439-11-22 23:45 G	14299972.36	14299972.49	14299972.62	0.2676	0.1525
Mercury	34449-05-22 17:02 G	14303441.11	14303441.21	14303441.32	0.2655	0.0192
Mercury	34462-05-25 10:33 G	14308191.85	14308191.94	14308192.03	0.2655	0.1486
Mercury	34469-05-18 11:17 G	14310741.91	14310741.97	14310742.03	0.2655	0.2168
Mercury	34472-11-19 22:19 G	14312023.28	14312023.43	14312023.58	0.2677	0.0953
Mercury	34482-05-21 04:33 G	14315492.59	14315492.69	14315492.79	0.2655	0.0873
Mercury	34485-11-23 06:29 G	14316774.67	14316774.77	14316774.87	0.2677	0.2088
Mercury	34495-05-23 21:50 G	14320243.31	14320243.41	14320243.52	0.2655	0.0438
Mercury	34508-05-26 15:21 G	14324994.06	14324994.14	14324994.22	0.2655	0.1756
Mercury	34515-05-20 16:05 G	14327544.10	14327544.17	14327544.24	0.2655	0.1902
Mercury	34518-11-22 05:02 G	14328825.56	14328825.71	14328825.87	0.2677	0.0376
Mercury	34528-05-22 09:21 G	14332294.78	14332294.89	14332294.99	0.2655	0.0610
Mercury	34531-11-25 13:12 G	14333577.03	14333577.05	14333577.07	0.2677	0.2654
Venus	34535-03-28 20:09 G	14334796.19	14334796.34	14334796.49	0.2659	0.0771
Mercury	34541-05-25 02:38 G	14337045.51	14337045.61	14337045.72	0.2655	0.0705
Mercury	34554-05-27 20:09 G	14341796.27	14341796.34	14341796.41	0.2655	0.2027
Mercury	34561-05-20 20:53 G	14344346.28	14344346.37	14344346.45	0.2655	0.1636
Mercury	34564-11-22 12:00 G	14345627.84	14345628.00	14345628.16	0.2677	0.0216
Mercury	34574-05-23 14:09 G	14349096.98	14349097.09	14349097.20	0.2655	0.0343
Mercury	34587-05-26 07:26 G	14353847.71	14353847.81	14353847.91	0.2655	0.0971
Mercury	34594-05-19 08:24 G	14356397.85	14356397.85	14356397.85	0.2655	0.2654

Mercury	34597-11-20 10:19 G	14357678.85	14357678.93	14357679.02	0.2677	0.2289
Mercury	34600-05-29 00:43 G	14358598.48	14358598.53	14358598.59	0.2655	0.2301
Mercury	34607-05-23 01:41 G	14361148.47	14361148.57	14361148.66	0.2655	0.1371
Mercury	34610-11-24 18:43 G	14362430.13	14362430.28	14362430.44	0.2677	0.0798
Mercury	34620-05-24 18:57 G	14365899.18	14365899.29	14365899.40	0.2655	0.0113
Mercury	34633-05-27 12:14 G	14370649.91	14370650.01	14370650.11	0.2655	0.1246
Mercury	34640-05-20 13:12 G	14373200.00	14373200.05	14373200.09	0.2655	0.2392
Mercury	34643-11-22 17:17 G	14374481.10	14374481.22	14374481.34	0.2677	0.1706
Mercury	34646-05-30 05:31 G	14375400.71	14375400.73	14375400.76	0.2654	0.2569
Venus	34648-09-29 07:26 G	14376253.70	14376253.81	14376253.93	0.2672	0.1826
Mercury	34653-05-23 06:14 G	14377950.67	14377950.76	14377950.86	0.2655	0.1105
Venus	34656-09-26 21:36 G	14379173.30	14379173.40	14379173.50	0.2672	0.2052
Mercury	34656-11-25 01:26 G	14379232.43	14379232.56	14379232.70	0.2677	0.1366
Mercury	34666-05-25 23:45 G	14382701.38	14382701.49	14382701.59	0.2655	0.0227
Mercury	34679-05-28 17:02 G	14387452.12	14387452.21	14387452.30	0.2655	0.1515
Mercury	34686-05-21 17:45 G	14390002.18	14390002.24	14390002.31	0.2655	0.2129
Mercury	34689-11-23 00:00 G	14391283.36	14391283.50	14391283.65	0.2677	0.1122
Mercury	34699-05-24 11:02 G	14394752.86	14394752.96	14394753.06	0.2655	0.0838
Mercury	34702-11-27 08:09 G	14396034.74	14396034.84	14396034.95	0.2677	0.1937
Mercury	34712-05-27 04:19 G	14399503.58	14399503.68	14399503.79	0.2655	0.0478
Mercury	34725-05-29 21:50 G	14404254.33	14404254.41	14404254.49	0.2654	0.1789
Mercury	34732-05-22 22:33 G	14406804.37	14406804.44	14406804.52	0.2655	0.1862
Mercury	34735-11-25 06:57 G	14408085.63	14408085.79	14408085.94	0.2677	0.0544
Mercury	34745-05-25 15:50 G	14411555.06	14411555.16	14411555.27	0.2654	0.0568
Mercury	34748-11-27 14:53 G	14412837.07	14412837.12	14412837.18	0.2677	0.2501
Mercury	34758-05-28 09:07 G	14416305.78	14416305.88	14416305.99	0.2654	0.0740
Mercury	34771-05-31 02:24 G	14421056.54	14421056.60	14421056.67	0.2654	0.2056
Venus	34778-03-30 22:33 G	14423552.29	14423552.44	14423552.59	0.2660	0.0786
Mercury	34778-05-24 03:21 G	14423606.55	14423606.64	14423606.73	0.2655	0.1597
Mercury	34781-11-25 13:41 G	14424887.91	14424888.07	14424888.23	0.2677	0.0047

Mercury	34791-05-26 20:38 G	14428357.25	14428357.36	14428357.47	0.2654	0.0302
Mercury	34804-05-28 13:55 G	14433107.98	14433108.08	14433108.18	0.2654	0.1008
Mercury	34811-05-22 14:53 G	14435658.11	14435658.12	14435658.13	0.2655	0.2618
Mercury	34814-11-23 12:00 G	14436938.94	14436939.00	14436939.06	0.2677	0.2479
Mercury	34817-05-31 07:12 G	14437858.75	14437858.80	14437858.85	0.2654	0.2328
Mercury	34824-05-24 08:09 G	14440408.74	14440408.84	14440408.93	0.2654	0.1334
Mercury	34827-11-26 20:24 G	14441690.19	14441690.35	14441690.50	0.2677	0.0616
Mercury	34837-05-27 01:26 G	14445159.45	14445159.56	14445159.67	0.2654	0.0062
Mercury	34850-05-29 18:43 G	14449910.18	14449910.28	14449910.37	0.2654	0.1274
Mercury	34857-05-22 19:41 G	14452460.27	14452460.32	14452460.37	0.2655	0.2353
Mercury	34860-11-23 18:43 G	14453741.17	14453741.28	14453741.40	0.2677	0.1887
Mercury	34863-06-01 12:00 G	14454660.98	14454661.00	14454661.02	0.2654	0.2598
Mercury	34870-05-25 12:57 G	14457210.94	14457211.04	14457211.14	0.2654	0.1072
Mercury	34873-11-27 03:07 G	14458492.49	14458492.63	14458492.78	0.2677	0.1200
Mercury	34883-05-28 06:00 G	14461961.65	14461961.75	14461961.86	0.2654	0.0257
Venus	34891-10-01 07:12 G	14465009.68	14465009.80	14465009.93	0.2672	0.1599
Mercury	34896-05-29 23:31 G	14466712.39	14466712.48	14466712.56	0.2654	0.1547
Venus	34899-09-28 21:21 G	14467929.31	14467929.39	14467929.46	0.2671	0.2306
Mercury	34903-05-25 00:29 G	14469262.45	14469262.52	14469262.58	0.2655	0.2088
Mercury	34906-11-26 01:41 G	14470543.43	14470543.57	14470543.71	0.2677	0.1296
Mercury	34916-05-26 17:45 G	14474013.13	14474013.24	14474013.34	0.2654	0.0807
Mercury	34919-11-29 10:05 G	14475294.80	14475294.92	14475295.04	0.2677	0.1775
Mercury	34929-05-29 10:48 G	14478763.85	14478763.95	14478764.06	0.2654	0.0506
Mercury	34942-06-01 04:05 G	14483514.60	14483514.67	14483514.75	0.2654	0.1812
Mercury	34949-05-25 05:02 G	14486064.64	14486064.71	14486064.79	0.2654	0.1826
Mercury	34952-11-26 08:24 G	14487345.70	14487345.85	14487346.01	0.2677	0.0714
Mercury	34962-05-27 22:19 G	14490815.33	14490815.43	14490815.54	0.2654	0.0535
Mercury	34965-11-29 16:48 G	14492097.13	14492097.20	14492097.27	0.2677	0.2349
Mercury	34975-05-30 15:36 G	14495566.05	14495566.15	14495566.26	0.2654	0.0770
Mercury	34988-06-01 08:53 G	14500316.81	14500316.87	14500316.94	0.2654	0.2087

Mercury	34995-05-26 09:50 G	14502866.83	14502866.91	14502867.00	0.2654	0.1560
Mercury	34998-11-27 15:21 G	14504147.98	14504148.14	14504148.30	0.2677	0.0152

36TH MILLENNIUM CE

This is a list of transits visible from Earth in the 36th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	35008-05-29 03:07 G		14507617.52	14507617.63	14507617.74	0.2654	0.0267	
Venus	35021-04-02 01:12 G		14512308.40	14512308.55	14512308.70	0.2660	0.0800	
Mercury	35021-05-31 20:24 G		14512368.25	14512368.35	14512368.45	0.2654	0.1038	
Mercury	35028-05-24 21:21 G		14514918.37	14514918.39	14514918.42	0.2654	0.2578	
Mercury	35031-11-26 13:26 G		14516199.06	14516199.06	14516199.06	0.2677	0.2673	
Mercury	35034-06-03 13:41 G		14517119.03	14517119.07	14517119.12	0.2654	0.2356	
Mercury	35041-05-27 14:38 G		14519669.02	14519669.11	14519669.20	0.2654	0.1296	
Mercury	35044-11-28 22:05 G		14520950.26	14520950.42	14520950.58	0.2677	0.0449	
Mercury	35054-05-30 07:55 G		14524419.72	14524419.83	14524419.94	0.2654	0.0066	
Mercury	35067-06-02 01:12 G		14529170.45	14529170.55	14529170.64	0.2654	0.1308	
Mercury	35074-05-26 02:09 G		14531720.54	14531720.59	14531720.64	0.2654	0.2313	
Mercury	35077-11-26 20:24 G		14533001.25	14533001.35	14533001.45	0.2677	0.2080	
Mercury	35080-06-03 18:29 G		14533921.26	14533921.27	14533921.28	0.2654	0.2627	
Mercury	35087-05-28 19:26 G		14536471.21	14536471.31	14536471.41	0.2654	0.1031	
Mercury	35090-11-30 04:48 G		14537752.55	14537752.70	14537752.85	0.2677	0.1023	
Mercury	35100-05-31 12:43 G		14541221.92	14541222.03	14541222.13	0.2654	0.0284	
Mercury	35113-06-03 06:00 G		14545972.66	14545972.75	14545972.83	0.2654	0.1575	

Mercury	35120-05-27 06:57 G	14548522.72	14548522.79	14548522.86	0.2654	0.2053
Mercury	35123-11-29 03:07 G	14549803.50	14549803.63	14549803.77	0.2677	0.1487
Mercury	35133-05-30 00:00 G	14553273.40	14553273.50	14553273.61	0.2654	0.0774
Venus	35134-10-04 06:43 G	14553765.64	14553765.78	14553765.92	0.2671	0.1326
Mercury	35136-12-01 11:45 G	14554554.86	14554554.99	14554555.12	0.2677	0.1604
Venus	35142-10-01 20:53 G	14556685.32	14556685.37	14556685.42	0.2671	0.2538
Mercury	35146-06-01 17:17 G	14558024.12	14558024.22	14558024.33	0.2654	0.0539
Mercury	35159-06-04 10:48 G	14562774.87	14562774.95	14562775.02	0.2654	0.1847
Mercury	35166-05-28 11:45 G	14565324.91	14565324.99	14565325.07	0.2654	0.1791
Mercury	35169-11-29 10:05 G	14566605.77	14566605.92	14566606.07	0.2677	0.0898
Mercury	35179-05-31 04:48 G	14570075.60	14570075.70	14570075.81	0.2654	0.0505
Mercury	35182-12-02 18:29 G	14571357.18	14571357.27	14571357.36	0.2678	0.2181
Mercury	35192-06-01 22:05 G	14574826.32	14574826.42	14574826.53	0.2654	0.0801
Mercury	35205-06-04 15:21 G	14579577.08	14579577.14	14579577.21	0.2654	0.2116
Mercury	35212-05-28 16:19 G	14582127.10	14582127.18	14582127.27	0.2654	0.1529
Mercury	35215-11-30 17:02 G	14583408.05	14583408.21	14583408.37	0.2677	0.0316
Mercury	35225-05-31 09:36 G	14586877.79	14586877.90	14586878.01	0.2654	0.0237
Mercury	35238-06-03 02:53 G	14591628.52	14591628.62	14591628.72	0.2654	0.1066
Mercury	35245-05-27 04:05 G	14594178.64	14594178.67	14594178.70	0.2654	0.2538
Mercury	35251-06-05 20:09 G	14596379.30	14596379.34	14596379.39	0.2654	0.2383
Mercury	35258-05-29 21:07 G	14598929.29	14598929.38	14598929.48	0.2654	0.1258
Mercury	35261-11-30 23:45 G	14600210.33	14600210.49	14600210.65	0.2677	0.0272
Venus	35264-04-03 03:36 G	14601064.50	14601064.65	14601064.80	0.2660	0.0811
Mercury	35271-06-01 14:24 G	14603679.99	14603680.10	14603680.21	0.2654	0.0039
Mercury	35284-06-03 07:41 G	14608430.73	14608430.82	14608430.91	0.2654	0.1335
Mercury	35291-05-28 08:38 G	14610980.81	14610980.86	14610980.92	0.2654	0.2280
Mercury	35294-11-28 21:50 G	14612261.33	14612261.41	14612261.50	0.2677	0.2266
Mercury	35297-06-06 00:57 G	14613181.54	14613181.54	14613181.54	0.2654	0.2649
Mercury	35304-05-31 01:55 G	14615731.48	14615731.58	14615731.68	0.2654	0.0996
Mercury	35307-12-03 06:43 G	14617012.62	14617012.78	14617012.93	0.2678	0.0863

Mercury	35317-06-02 19:12 G	14620482.19	14620482.30	14620482.41	0.2654	0.0308
Mercury	35330-06-05 12:29 G	14625232.93	14625233.02	14625233.10	0.2654	0.1607
Mercury	35337-05-29 13:26 G	14627782.99	14627783.06	14627783.13	0.2654	0.2016
Mercury	35340-11-30 04:48 G	14629063.57	14629063.70	14629063.82	0.2677	0.1675
Mercury	35350-06-01 06:43 G	14632533.67	14632533.78	14632533.88	0.2654	0.0734
Mercury	35353-12-03 13:26 G	14633814.92	14633815.06	14633815.19	0.2678	0.1434
Mercury	35363-06-04 00:00 G	14637284.39	14637284.50	14637284.60	0.2654	0.0573
Mercury	35376-06-05 17:17 G	14642035.14	14642035.22	14642035.29	0.2654	0.1877
Venus	35377-10-05 06:29 G	14642521.63	14642521.77	14642521.92	0.2671	0.1094
Mercury	35383-05-30 18:14 G	14644585.18	14644585.26	14644585.34	0.2654	0.1754
Mercury	35386-12-01 11:31 G	14645865.84	14645865.98	14645866.13	0.2678	0.1090
Mercury	35396-06-01 11:17 G	14649335.87	14649335.97	14649336.08	0.2654	0.0481
Mercury	35399-12-04 20:09 G	14650617.24	14650617.34	14650617.45	0.2678	0.2012
Mercury	35409-06-05 04:33 G	14654086.59	14654086.69	14654086.80	0.2654	0.0837
Mercury	35422-06-07 21:50 G	14658837.35	14658837.41	14658837.48	0.2654	0.2145
Mercury	35429-05-31 23:02 G	14661387.37	14661387.46	14661387.54	0.2654	0.1492
Mercury	35432-12-02 18:29 G	14662668.11	14662668.27	14662668.43	0.2678	0.0500
Mercury	35442-06-03 16:05 G	14666138.07	14666138.17	14666138.28	0.2654	0.0215
Mercury	35445-12-06 02:53 G	14667419.58	14667419.62	14667419.66	0.2678	0.2578
Mercury	35455-06-06 09:21 G	14670888.79	14670888.89	14670888.99	0.2654	0.1100
Mercury	35462-05-30 10:33 G	14673438.91	14673438.94	14673438.97	0.2654	0.2503
Mercury	35468-06-08 02:38 G	14675639.57	14675639.61	14675639.66	0.2654	0.2408
Mercury	35475-06-02 03:36 G	14678189.56	14678189.65	14678189.75	0.2654	0.1231
Mercury	35478-12-04 01:26 G	14679470.40	14679470.56	14679470.72	0.2678	0.0110
Mercury	35488-06-03 20:53 G	14682940.26	14682940.37	14682940.48	0.2654	0.0071
Mercury	35501-06-07 14:09 G	14687691.00	14687691.09	14687691.18	0.2654	0.1367
Venus	35507-04-07 06:00 G	14689820.60	14689820.75	14689820.90	0.2661	0.0837
Mercury	35508-05-31 15:21 G	14690241.08	14690241.14	14690241.19	0.2654	0.2244
Mercury	35511-12-02 23:31 G	14691521.41	14691521.48	14691521.54	0.2678	0.2455
Mercury	35521-06-03 08:24 G	14694991.75	14694991.85	14694991.95	0.2654	0.0962

Mercury	35524-12-05 08:09 G	14696272.69	14696272.84	14696273.00	0.2678	0.0676
Mercury	35534-06-06 01:41 G	14699742.46	14699742.57	14699742.68	0.2654	0.0329
Mercury	35547-06-08 18:57 G	14704493.20	14704493.29	14704493.37	0.2654	0.1633
Mercury	35554-06-01 19:55 G	14707043.26	14707043.33	14707043.40	0.2654	0.1979
Mercury	35557-12-03 06:14 G	14708323.65	14708323.76	14708323.87	0.2678	0.1871
Mercury	35567-06-04 13:12 G	14711793.95	14711794.05	14711794.15	0.2654	0.0698
Mercury	35570-12-06 15:07 G	14713074.98	14713075.13	14713075.27	0.2678	0.1263
Mercury	35580-06-06 06:29 G	14716544.66	14716544.77	14716544.87	0.2654	0.0601
Mercury	35593-06-08 23:45 G	14721295.41	14721295.49	14721295.56	0.2653	0.1901
Mercury	35600-06-02 00:43 G	14723845.45	14723845.53	14723845.61	0.2654	0.1715
Mercury	35603-12-04 13:12 G	14725125.91	14725126.05	14725126.19	0.2678	0.1273
Mercury	35613-06-04 18:00 G	14728596.14	14728596.25	14728596.36	0.2654	0.0431
Mercury	35616-12-06 21:50 G	14729877.29	14729877.41	14729877.52	0.2678	0.1832
Venus	35620-10-07 06:14 G	14731277.61	14731277.76	14731277.91	0.2671	0.0865
Mercury	35626-06-07 11:02 G	14733346.86	14733346.96	14733347.07	0.2654	0.0871
Mercury	35639-06-10 04:19 G	14738097.62	14738097.68	14738097.75	0.2653	0.2168
Mercury	35646-06-03 05:31 G	14740647.64	14740647.73	14740647.82	0.2654	0.1454
Mercury	35649-12-04 19:55 G	14741928.18	14741928.33	14741928.49	0.2678	0.0686
Mercury	35659-06-05 22:48 G	14745398.34	14745398.45	14745398.55	0.2654	0.0190
Mercury	35662-12-08 04:48 G	14746679.63	14746679.70	14746679.76	0.2678	0.2421
Mercury	35672-06-07 15:50 G	14750149.06	14750149.16	14750149.26	0.2653	0.1133
Mercury	35679-06-01 17:02 G	14752699.18	14752699.21	14752699.25	0.2654	0.2470
Mercury	35685-06-10 09:07 G	14754899.84	14754899.88	14754899.92	0.2653	0.2437
Mercury	35692-06-03 10:19 G	14757449.83	14757449.93	14757450.02	0.2654	0.1191
Mercury	35695-12-06 02:53 G	14758730.46	14758730.62	14758730.78	0.2678	0.0104
Mercury	35705-06-07 03:21 G	14762200.54	14762200.64	14762200.75	0.2653	0.0127
Mercury	35718-06-09 20:38 G	14766951.27	14766951.36	14766951.45	0.2653	0.1393
Mercury	35725-06-02 21:50 G	14769501.35	14769501.41	14769501.47	0.2654	0.2204
Mercury	35728-12-04 00:43 G	14770781.52	14770781.53	14770781.54	0.2678	0.2670
Mercury	35738-06-05 14:53 G	14774252.02	14774252.12	14774252.23	0.2654	0.0936

Mercury	35741-12-07 09:36 G	14775532.75	14775532.90	14775533.06	0.2678	0.0489
Venus	35750-04-08 08:24 G	14778576.70	14778576.85	14778577.00	0.2661	0.0835
Mercury	35751-06-08 08:09 G	14779002.73	14779002.84	14779002.95	0.2653	0.0360
Mercury	35764-06-10 01:26 G	14783753.47	14783753.56	14783753.64	0.2653	0.1660
Mercury	35771-06-04 02:38 G	14786303.54	14786303.61	14786303.68	0.2654	0.1945
Mercury	35774-12-05 07:41 G	14787583.72	14787583.82	14787583.93	0.2678	0.2060
Mercury	35784-06-05 19:41 G	14791054.22	14791054.32	14791054.43	0.2653	0.0665
Mercury	35787-12-08 16:33 G	14792335.04	14792335.19	14792335.34	0.2678	0.1071
Mercury	35797-06-08 12:57 G	14795804.93	14795805.04	14795805.14	0.2653	0.0627
Mercury	35810-06-12 06:14 G	14800555.68	14800555.76	14800555.83	0.2653	0.1926
Mercury	35817-06-05 07:26 G	14803105.72	14803105.81	14803105.89	0.2654	0.1683
Mercury	35820-12-06 14:38 G	14804385.98	14804386.11	14804386.25	0.2678	0.1466
Mercury	35830-06-08 00:29 G	14807856.41	14807856.52	14807856.63	0.2654	0.0402
Mercury	35833-12-09 23:31 G	14809137.36	14809137.48	14809137.61	0.2678	0.1667
Mercury	35843-06-10 17:45 G	14812607.13	14812607.24	14812607.34	0.2653	0.0896
Mercury	35856-06-12 11:02 G	14817357.90	14817357.96	14817358.02	0.2653	0.2196
Mercury	35863-06-06 12:00 G	14819907.91	14819908.00	14819908.09	0.2654	0.1420
Venus	35863-10-10 06:00 G	14820033.59	14820033.75	14820033.91	0.2670	0.0627
Mercury	35866-12-07 21:36 G	14821188.24	14821188.40	14821188.55	0.2678	0.0875
Mercury	35876-06-08 05:17 G	14824658.61	14824658.72	14824658.83	0.2653	0.0151
Mercury	35879-12-11 06:14 G	14825939.68	14825939.76	14825939.85	0.2678	0.2244
Mercury	35889-06-10 22:19 G	14829409.34	14829409.43	14829409.53	0.2653	0.1160
Mercury	35896-06-03 23:45 G	14831959.45	14831959.49	14831959.53	0.2654	0.2429
Mercury	35902-06-14 15:36 G	14834160.12	14834160.15	14834160.19	0.2653	0.2463
Mercury	35909-06-07 16:48 G	14836710.10	14836710.20	14836710.30	0.2653	0.1156
Mercury	35912-12-09 04:19 G	14837990.52	14837990.68	14837990.84	0.2678	0.0295
Mercury	35922-06-10 09:50 G	14841460.81	14841460.91	14841461.02	0.2653	0.0160
Mercury	35935-06-13 03:07 G	14846211.54	14846211.63	14846211.72	0.2653	0.1426
Mercury	35942-06-06 04:19 G	14848761.62	14848761.68	14848761.75	0.2654	0.2173
Mercury	35955-06-08 21:36 G	14853512.30	14853512.40	14853512.50	0.2653	0.0896

Mercury	35958-12-10 11:17 G	14854792.81	14854792.97	14854793.13	0.2678	0.0304
Mercury	35968-06-10 14:38 G	14858263.01	14858263.11	14858263.22	0.2653	0.0399
Mercury	35981-06-13 07:55 G	14863013.75	14863013.83	14863013.91	0.2653	0.1688
Mercury	35988-06-06 09:07 G	14865563.81	14865563.88	14865563.96	0.2653	0.1909
Mercury	35991-12-08 09:07 G	14866843.80	14866843.88	14866843.97	0.2678	0.2270
Venus	35993-04-10 10:48 G	14867332.80	14867332.95	14867333.10	0.2662	0.0870

37TH MILLENNIUM CE

This is a list of transits visible from Earth in the 37th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	36001-06-09 02:09 G		14870314.49	14870314.59	14870314.70	0.2653	0.0643	
Mercury	36004-12-10 18:14 G		14871595.11	14871595.26	14871595.41	0.2678	0.0892	
Mercury	36014-06-11 19:26 G		14875065.21	14875065.31	14875065.42	0.2653	0.0656	
Mercury	36027-06-14 12:43 G		14879815.96	14879816.03	14879816.10	0.2653	0.1956	
Mercury	36034-06-07 13:55 G		14882365.99	14882366.08	14882366.16	0.2653	0.1653	
Mercury	36037-12-08 16:05 G		14883646.04	14883646.17	14883646.30	0.2678	0.1673	
Mercury	36047-06-10 06:57 G		14887116.68	14887116.79	14887116.90	0.2653	0.0372	
Mercury	36050-12-12 00:57 G		14888397.41	14888397.54	14888397.67	0.2678	0.1468	
Mercury	36060-06-12 00:14 G		14891867.41	14891867.51	14891867.61	0.2653	0.0920	
Mercury	36073-06-14 17:31 G		14896618.17	14896618.23	14896618.28	0.2653	0.2220	
Mercury	36080-06-07 18:29 G		14899168.18	14899168.27	14899168.37	0.2653	0.1394	
Mercury	36083-12-09 23:02 G		14900448.31	14900448.46	14900448.61	0.2678	0.1080	
Mercury	36093-06-10 11:45 G		14903918.88	14903918.99	14903919.10	0.2653	0.0111	

Mercury	36096-12-12 07:55 G	14905199.73	14905199.83	14905199.93	0.2678	0.2055
Mercury	36106-06-14 05:02 G	14908669.61	14908669.71	14908669.80	0.2653	0.1187
Venus	36106-10-12 06:00 G	14908789.59	14908789.75	14908789.91	0.2670	0.0426
Mercury	36113-06-07 06:14 G	14911219.72	14911219.76	14911219.80	0.2654	0.2396
Mercury	36119-06-16 22:05 G	14913420.39	14913420.42	14913420.46	0.2653	0.2489
Mercury	36126-06-09 23:17 G	14915970.38	14915970.47	14915970.57	0.2653	0.1128
Mercury	36129-12-11 06:00 G	14917250.59	14917250.75	14917250.91	0.2678	0.0477
Mercury	36139-06-12 16:33 G	14920721.08	14920721.19	14920721.30	0.2653	0.0162
Mercury	36142-12-14 14:38 G	14922002.09	14922002.11	14922002.14	0.2679	0.2635
Mercury	36152-06-14 09:36 G	14925471.81	14925471.90	14925471.99	0.2653	0.1451
Mercury	36159-06-08 11:02 G	14928021.90	14928021.96	14928022.02	0.2653	0.2138
Mercury	36172-06-10 04:05 G	14932772.57	14932772.67	14932772.77	0.2653	0.0864
Mercury	36175-12-12 12:57 G	14934052.87	14934053.04	14934053.20	0.2678	0.0138
Mercury	36185-06-12 21:21 G	14937523.28	14937523.39	14937523.49	0.2653	0.0428
Mercury	36198-06-15 14:24 G	14942274.02	14942274.10	14942274.18	0.2653	0.1716
Mercury	36205-06-09 15:36 G	14944824.08	14944824.15	14944824.23	0.2653	0.1881
Mercury	36208-12-10 10:33 G	14946103.88	14946103.94	14946104.00	0.2678	0.2474
Mercury	36218-06-12 08:53 G	14949574.76	14949574.87	14949574.97	0.2653	0.0602
Mercury	36221-12-13 19:41 G	14950855.16	14950855.32	14950855.47	0.2678	0.0696
Mercury	36231-06-15 01:55 G	14954325.48	14954325.58	14954325.69	0.2653	0.0692
Venus	36236-04-12 13:12 G	14956088.90	14956089.05	14956089.19	0.2662	0.0867
Mercury	36244-06-16 19:12 G	14959076.23	14959076.30	14959076.37	0.2653	0.1978
Mercury	36251-06-10 20:24 G	14961626.27	14961626.35	14961626.44	0.2653	0.1617
Mercury	36254-12-11 17:31 G	14962906.11	14962906.23	14962906.34	0.2678	0.1879
Mercury	36264-06-12 13:41 G	14966376.96	14966377.07	14966377.17	0.2653	0.0351
Mercury	36267-12-15 02:38 G	14967657.46	14967657.61	14967657.75	0.2679	0.1284
Mercury	36277-06-15 06:43 G	14971127.68	14971127.78	14971127.88	0.2653	0.0947
Mercury	36284-06-08 08:09 G	14973677.82	14973677.84	14973677.85	0.2653	0.2626
Mercury	36290-06-18 00:00 G	14975878.44	14975878.50	14975878.55	0.2653	0.2247
Mercury	36297-06-11 01:12 G	14978428.46	14978428.55	14978428.64	0.2653	0.1356

Mercury	36300-12-13 00:29 G	14979708.37	14979708.52	14979708.66	0.2678	0.1282
Mercury	36310-06-14 18:14 G	14983179.16	14983179.26	14983179.37	0.2653	0.0122
Mercury	36313-12-16 09:21 G	14984459.78	14984459.89	14984460.01	0.2679	0.1865
Mercury	36323-06-17 11:31 G	14987929.88	14987929.98	14987930.07	0.2653	0.1212
Mercury	36330-06-10 12:43 G	14990479.99	14990480.03	14990480.08	0.2653	0.2368
Mercury	36336-06-19 04:48 G	14992680.66	14992680.70	14992680.73	0.2653	0.2509
Mercury	36343-06-13 06:00 G	14995230.65	14995230.75	14995230.84	0.2653	0.1098
Mercury	36346-12-14 07:12 G	14996510.65	14996510.80	14996510.96	0.2678	0.0693
Venus	36349-10-14 05:31 G	14997545.57	14997545.73	14997545.89	0.2669	0.0197
Mercury	36356-06-14 23:02 G	14999981.35	14999981.46	14999981.57	0.2653	0.0186
Mercury	36359-12-17 16:19 G	15001262.12	15001262.18	15001262.24	0.2679	0.2450
Mercury	36369-06-17 16:19 G	15004732.09	15004732.18	15004732.27	0.2653	0.1478
Mercury	36376-06-10 17:31 G	15007282.17	15007282.23	15007282.29	0.2653	0.2108
Mercury	36389-06-13 10:33 G	15012032.84	15012032.94	15012033.05	0.2653	0.0840
Mercury	36392-12-14 14:09 G	15013312.93	15013313.09	15013313.25	0.2679	0.0099
Mercury	36402-06-16 03:50 G	15016783.55	15016783.66	15016783.76	0.2653	0.0452
Mercury	36415-06-18 20:53 G	15021534.29	15021534.37	15021534.45	0.2653	0.1740
Mercury	36422-06-11 22:19 G	15024084.35	15024084.43	15024084.51	0.2653	0.1845
Mercury	36435-06-14 15:21 G	15028835.04	15028835.14	15028835.25	0.2653	0.0575
Mercury	36438-12-15 21:07 G	15030115.22	15030115.38	15030115.54	0.2679	0.0499
Mercury	36448-06-16 08:24 G	15033585.75	15033585.85	15033585.96	0.2653	0.0714
Mercury	36461-06-19 01:41 G	15038336.50	15038336.57	15038336.64	0.2653	0.2002
Mercury	36468-06-12 03:07 G	15040886.54	15040886.63	15040886.71	0.2653	0.1586
Mercury	36471-12-13 18:57 G	15042166.19	15042166.29	15042166.39	0.2678	0.2085
Venus	36479-04-14 15:36 G	15044845.00	15044845.15	15044845.29	0.2663	0.0881
Mercury	36481-06-14 20:09 G	15045637.23	15045637.34	15045637.45	0.2653	0.0311
Mercury	36484-12-16 04:05 G	15046917.52	15046917.67	15046917.82	0.2679	0.1090
Mercury	36494-06-17 13:12 G	15050387.95	15050388.05	15050388.15	0.2653	0.0976
Mercury	36501-06-11 14:38 G	15052938.09	15052938.11	15052938.13	0.2653	0.2592
Mercury	36507-06-21 06:29 G	15055138.72	15055138.77	15055138.82	0.2653	0.2262

Mercury	36514-06-14 07:41 G	15057688.73	15057688.82	15057688.92	0.2653	0.1328
Mercury	36517-12-15 01:41 G	15058968.44	15058968.57	15058968.71	0.2679	0.1490
Mercury	36527-06-17 00:57 G	15062439.43	15062439.54	15062439.64	0.2653	0.0114
Mercury	36530-12-18 11:02 G	15063719.83	15063719.96	15063720.08	0.2679	0.1676
Mercury	36540-06-18 18:00 G	15067190.16	15067190.25	15067190.35	0.2653	0.1236
Mercury	36547-06-12 19:26 G	15069740.26	15069740.31	15069740.36	0.2653	0.2335
Mercury	36553-06-21 11:17 G	15071940.94	15071940.97	15071941.00	0.2653	0.2531
Mercury	36560-06-14 12:29 G	15074490.92	15074491.02	15074491.12	0.2653	0.1066
Mercury	36563-12-16 08:38 G	15075770.71	15075770.86	15075771.02	0.2679	0.0897
Mercury	36573-06-17 05:31 G	15079241.63	15079241.73	15079241.84	0.2653	0.0224
Mercury	36576-12-18 17:45 G	15080522.16	15080522.24	15080522.33	0.2679	0.2258
Mercury	36586-06-19 22:48 G	15083992.36	15083992.45	15083992.54	0.2653	0.1499
Venus	36592-10-15 05:31 G	15086301.57	15086301.73	15086301.89	0.2669	0.0071
Mercury	36593-06-13 00:14 G	15086542.44	15086542.51	15086542.57	0.2653	0.2076
Mercury	36606-06-16 17:17 G	15091293.11	15091293.22	15091293.32	0.2653	0.0809
Mercury	36609-12-17 15:36 G	15092572.99	15092573.15	15092573.31	0.2679	0.0303
Mercury	36619-06-19 10:19 G	15096043.82	15096043.93	15096044.04	0.2653	0.0472
Mercury	36632-06-21 03:36 G	15100794.57	15100794.65	15100794.73	0.2653	0.1763
Mercury	36639-06-15 04:48 G	15103344.63	15103344.70	15103344.78	0.2653	0.1817
Mercury	36652-06-16 21:50 G	15108095.31	15108095.41	15108095.52	0.2653	0.0551
Mercury	36655-12-18 22:33 G	15109375.28	15109375.44	15109375.60	0.2679	0.0288
Mercury	36665-06-19 15:07 G	15112846.02	15112846.13	15112846.23	0.2653	0.0736
Mercury	36678-06-22 08:09 G	15117596.78	15117596.84	15117596.91	0.2652	0.2026
Mercury	36685-06-15 09:36 G	15120146.81	15120146.90	15120146.99	0.2653	0.1559
Mercury	36688-12-15 20:09 G	15121426.26	15121426.34	15121426.42	0.2679	0.2304
Mercury	36698-06-18 02:38 G	15124897.50	15124897.61	15124897.72	0.2653	0.0287
Mercury	36701-12-20 05:31 G	15126177.57	15126177.73	15126177.88	0.2679	0.0882
Mercury	36711-06-21 19:55 G	15129648.23	15129648.33	15129648.43	0.2653	0.1002
Mercury	36718-06-14 21:21 G	15132198.36	15132198.39	15132198.41	0.2653	0.2565
Venus	36722-04-17 17:45 G	15133601.09	15133601.24	15133601.39	0.2663	0.0883

Mercury	36724-06-23 12:57 G	15134398.99	15134399.04	15134399.09	0.2652	0.2288
Mercury	36731-06-17 14:24 G	15136949.00	15136949.10	15136949.19	0.2653	0.1303
Mercury	36734-12-18 03:07 G	15138228.51	15138228.63	15138228.76	0.2679	0.1703
Mercury	36744-06-19 07:26 G	15141699.70	15141699.81	15141699.92	0.2653	0.0050
Mercury	36747-12-21 12:14 G	15142979.88	15142980.01	15142980.15	0.2679	0.1473
Mercury	36757-06-22 00:29 G	15146450.43	15146450.52	15146450.62	0.2652	0.1259
Mercury	36764-06-15 01:55 G	15149000.53	15149000.58	15149000.63	0.2653	0.2302
Mercury	36770-06-24 17:45 G	15151201.21	15151201.24	15151201.27	0.2652	0.2549
Mercury	36777-06-17 18:57 G	15153751.19	15153751.29	15153751.39	0.2653	0.1041
Mercury	36780-12-18 10:05 G	15155030.77	15155030.92	15155031.07	0.2679	0.1107
Mercury	36790-06-20 12:14 G	15158501.90	15158502.01	15158502.11	0.2653	0.0251
Mercury	36793-12-21 19:12 G	15159782.20	15159782.30	15159782.41	0.2679	0.2063
Mercury	36803-06-23 05:17 G	15163252.63	15163252.72	15163252.81	0.2653	0.1519
Mercury	36810-06-16 06:43 G	15165802.71	15165802.78	15165802.85	0.2653	0.2045
Mercury	36823-06-18 23:45 G	15170553.39	15170553.49	15170553.59	0.2653	0.0777
Mercury	36826-12-19 17:02 G	15171833.05	15171833.21	15171833.37	0.2679	0.0512
Venus	36835-10-18 05:31 G	15175057.57	15175057.73	15175057.89	0.2668	0.0240
Mercury	36836-06-20 16:48 G	15175304.10	15175304.20	15175304.31	0.2653	0.0508
Mercury	36839-12-23 02:09 G	15176584.57	15176584.59	15176584.61	0.2679	0.2643
Mercury	36849-06-23 10:05 G	15180054.84	15180054.92	15180055.00	0.2652	0.1784
Mercury	36856-06-16 11:31 G	15182604.90	15182604.98	15182605.05	0.2653	0.1790
Mercury	36869-06-19 04:33 G	15187355.58	15187355.69	15187355.79	0.2653	0.0522
Mercury	36872-12-20 00:00 G	15188635.34	15188635.50	15188635.66	0.2679	0.0090
Mercury	36882-06-21 21:36 G	15192106.30	15192106.40	15192106.50	0.2653	0.0762
Mercury	36895-06-24 14:53 G	15196857.05	15196857.12	15196857.18	0.2652	0.2050
Mercury	36902-06-18 16:05 G	15199407.09	15199407.17	15199407.26	0.2653	0.1533
Mercury	36905-12-18 21:21 G	15200686.34	15200686.39	15200686.45	0.2679	0.2529
Mercury	36915-06-21 09:21 G	15204157.78	15204157.89	15204157.99	0.2653	0.0283
Mercury	36918-12-22 06:57 G	15205437.63	15205437.79	15205437.94	0.2679	0.0676
Mercury	36928-06-23 02:24 G	15208908.50	15208908.60	15208908.70	0.2652	0.1021

Mercury	36935-06-17 03:50 G	15211458.63	15211458.66	15211458.69	0.2653	0.2533
Mercury	36941-06-25 19:26 G	15213659.26	15213659.31	15213659.36	0.2652	0.2309
Mercury	36948-06-18 20:53 G	15216209.28	15216209.37	15216209.46	0.2653	0.1272
Mercury	36951-12-20 04:19 G	15217488.57	15217488.68	15217488.79	0.2679	0.1935
Mercury	36961-06-21 13:55 G	15220959.97	15220960.08	15220960.19	0.2653	0.0058
Mercury	36964-12-22 13:41 G	15222239.93	15222240.07	15222240.22	0.2679	0.1262
Venus	36965-04-18 19:55 G	15222357.18	15222357.33	15222357.48	0.2663	0.0870
Mercury	36974-06-24 06:57 G	15225710.70	15225710.79	15225710.89	0.2652	0.1286
Mercury	36981-06-17 08:38 G	15228260.80	15228260.86	15228260.91	0.2653	0.2281
Mercury	36987-06-27 00:14 G	15230461.49	15230461.51	15230461.53	0.2652	0.2570
Mercury	36994-06-20 01:41 G	15233011.47	15233011.57	15233011.67	0.2653	0.1015
Mercury	36997-12-20 11:17 G	15234290.83	15234290.97	15234291.12	0.2679	0.1330

38TH MILLENNIUM CE

This is a list of transits visible from Earth in the 38th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	37007-06-23 18:43 G		15237762.17	15237762.28	15237762.39	0.2652	0.0262	
Mercury	37010-12-24 20:38 G		15239042.24	15239042.36	15239042.48	0.2679	0.1846	
Mercury	37020-06-25 11:45 G		15242512.91	15242512.99	15242513.08	0.2652	0.1543	
Mercury	37027-06-19 13:12 G		15245062.98	15245063.05	15245063.12	0.2653	0.2019	
Mercury	37040-06-21 06:14 G		15249813.66	15249813.76	15249813.87	0.2653	0.0763	
Mercury	37043-12-22 18:29 G		15251093.11	15251093.27	15251093.42	0.2679	0.0727	
Mercury	37053-06-23 23:31 G		15254564.37	15254564.48	15254564.58	0.2652	0.0528	

Mercury	37056-12-25 03:36 G	15255844.59	15255844.65	15255844.72	0.2679	0.2442
Mercury	37066-06-26 16:33 G	15259315.11	15259315.19	15259315.27	0.2652	0.1804
Mercury	37073-06-19 18:00 G	15261865.17	15261865.25	15261865.33	0.2653	0.1763
Venus	37078-10-20 05:31 G	15263813.57	15263813.73	15263813.88	0.2668	0.0437
Mercury	37086-06-22 11:02 G	15266615.86	15266615.96	15266616.07	0.2653	0.0494
Mercury	37089-12-23 01:26 G	15267895.39	15267895.56	15267895.72	0.2679	0.0152
Mercury	37099-06-25 04:05 G	15271366.57	15271366.67	15271366.78	0.2652	0.0786
Mercury	37112-06-27 21:21 G	15276117.32	15276117.39	15276117.45	0.2652	0.2065
Mercury	37119-06-21 22:48 G	15278667.36	15278667.45	15278667.54	0.2653	0.1501
Mercury	37132-06-23 15:50 G	15283418.05	15283418.16	15283418.27	0.2653	0.0237
Mercury	37135-12-25 08:09 G	15284697.68	15284697.84	15284698.00	0.2679	0.0466
Mercury	37145-06-26 08:53 G	15288168.77	15288168.87	15288168.97	0.2652	0.1042
Mercury	37152-06-19 10:19 G	15290718.90	15290718.93	15290718.97	0.2653	0.2509
Mercury	37158-06-29 02:09 G	15292919.54	15292919.59	15292919.64	0.2652	0.2329
Mercury	37165-06-22 03:36 G	15295469.55	15295469.65	15295469.74	0.2653	0.1249
Mercury	37168-12-22 05:45 G	15296748.64	15296748.74	15296748.84	0.2679	0.2145
Mercury	37178-06-24 20:38 G	15300220.25	15300220.36	15300220.46	0.2652	0.0112
Mercury	37181-12-25 15:07 G	15301499.98	15301500.13	15301500.28	0.2679	0.1052
Mercury	37191-06-27 13:41 G	15304970.97	15304971.07	15304971.16	0.2652	0.1305
Mercury	37198-06-20 15:07 G	15307521.08	15307521.13	15307521.19	0.2653	0.2249
Mercury	37204-06-29 06:43 G	15309721.76	15309721.78	15309721.80	0.2652	0.2591
Venus	37208-04-20 22:05 G	15311113.27	15311113.42	15311113.57	0.2664	0.0882
Mercury	37211-06-23 08:09 G	15312271.74	15312271.84	15312271.94	0.2653	0.0987
Mercury	37214-12-23 12:43 G	15313550.90	15313551.03	15313551.16	0.2679	0.1549
Mercury	37224-06-25 01:12 G	15317022.45	15317022.55	15317022.66	0.2652	0.0290
Mercury	37227-12-26 22:05 G	15318302.30	15318302.42	15318302.55	0.2679	0.1650
Mercury	37237-06-27 18:29 G	15321773.18	15321773.27	15321773.35	0.2652	0.1569
Mercury	37244-06-20 19:55 G	15324323.26	15324323.33	15324323.40	0.2653	0.1994
Mercury	37257-06-23 12:57 G	15329073.93	15329074.04	15329074.14	0.2653	0.0731
Mercury	37260-12-23 19:41 G	15330353.17	15330353.32	15330353.47	0.2679	0.0954

Mercury	37270-06-26 06:00 G	15333824.64	15333824.75	15333824.86	0.2652	0.0545
Mercury	37273-12-27 05:02 G	15335104.62	15335104.71	15335104.80	0.2679	0.2229
Mercury	37283-06-28 23:02 G	15338575.39	15338575.46	15338575.54	0.2652	0.1827
Mercury	37290-06-22 00:29 G	15341125.44	15341125.52	15341125.61	0.2653	0.1737
Mercury	37303-06-25 17:31 G	15345876.13	15345876.23	15345876.34	0.2652	0.0481
Mercury	37306-12-26 02:38 G	15347155.45	15347155.61	15347155.77	0.2679	0.0361
Mercury	37316-06-27 10:48 G	15350626.84	15350626.95	15350627.05	0.2652	0.0807
Venus	37321-10-22 05:31 G	15352569.57	15352569.73	15352569.88	0.2667	0.0614
Mercury	37329-06-30 03:50 G	15355377.60	15355377.66	15355377.73	0.2652	0.2086
Mercury	37336-06-23 05:17 G	15357927.63	15357927.72	15357927.81	0.2653	0.1478
Mercury	37349-06-25 22:19 G	15362678.32	15362678.43	15362678.54	0.2652	0.0213
Mercury	37352-12-26 09:36 G	15363957.74	15363957.90	15363958.06	0.2679	0.0245
Mercury	37362-06-28 15:21 G	15367429.05	15367429.14	15367429.24	0.2652	0.1071
Mercury	37369-06-21 17:02 G	15369979.17	15369979.21	15369979.24	0.2653	0.2477
Mercury	37375-07-01 08:38 G	15372179.81	15372179.86	15372179.91	0.2652	0.2345
Mercury	37382-06-24 10:05 G	15374729.82	15374729.92	15374730.01	0.2653	0.1218
Mercury	37385-12-24 06:57 G	15376008.72	15376008.79	15376008.87	0.2679	0.2373
Mercury	37395-06-27 03:07 G	15379480.52	15379480.63	15379480.74	0.2652	0.0050
Mercury	37398-12-27 16:33 G	15380760.04	15380760.19	15380760.35	0.2679	0.0847
Mercury	37408-06-29 20:09 G	15384231.25	15384231.34	15384231.44	0.2652	0.1326
Mercury	37415-06-23 21:50 G	15386781.35	15386781.41	15386781.46	0.2653	0.2223
Mercury	37421-07-02 13:26 G	15388982.04	15388982.06	15388982.07	0.2652	0.2608
Mercury	37428-06-25 14:38 G	15391532.01	15391532.11	15391532.21	0.2653	0.0968
Mercury	37431-12-26 13:55 G	15392810.96	15392811.08	15392811.20	0.2679	0.1772
Mercury	37441-06-28 07:55 G	15396282.72	15396282.83	15396282.93	0.2652	0.0321
Mercury	37444-12-28 23:31 G	15397562.34	15397562.48	15397562.61	0.2679	0.1431
Venus	37451-04-24 00:14 G	15399869.36	15399869.51	15399869.66	0.2665	0.0866
Mercury	37454-07-01 00:57 G	15401033.45	15401033.54	15401033.63	0.2652	0.1584
Mercury	37461-06-24 02:24 G	15403583.53	15403583.60	15403583.67	0.2653	0.1965
Mercury	37474-06-26 19:26 G	15408334.21	15408334.31	15408334.42	0.2652	0.0703

Mercury	37477-12-26 20:53 G	15409613.22	15409613.37	15409613.52	0.2679	0.1179
Mercury	37487-06-29 12:29 G	15413084.92	15413085.02	15413085.13	0.2652	0.0575
Mercury	37490-12-30 06:29 G	15414364.66	15414364.77	15414364.87	0.2679	0.2025
Mercury	37500-07-02 05:45 G	15417835.66	15417835.74	15417835.81	0.2652	0.1847
Mercury	37507-06-26 07:12 G	15420385.72	15420385.80	15420385.88	0.2653	0.1709
Mercury	37520-06-28 00:14 G	15425136.40	15425136.51	15425136.62	0.2652	0.0444
Mercury	37523-12-29 03:50 G	15426415.50	15426415.66	15426415.82	0.2679	0.0574
Mercury	37533-06-30 17:17 G	15429887.12	15429887.22	15429887.32	0.2652	0.0830
Mercury	37536-12-31 13:12 G	15431167.02	15431167.05	15431167.09	0.2679	0.2608
Mercury	37546-07-03 10:19 G	15434637.87	15434637.93	15434638.00	0.2652	0.2106
Mercury	37553-06-26 12:00 G	15437187.91	15437188.00	15437188.08	0.2653	0.1454
Venus	37564-10-24 05:31 G	15441325.58	15441325.73	15441325.88	0.2667	0.0807
Mercury	37566-06-29 05:02 G	15441938.60	15441938.71	15441938.81	0.2652	0.0200
Mercury	37569-12-29 10:48 G	15443217.79	15443217.95	15443218.12	0.2679	0.0057
Mercury	37579-07-01 22:05 G	15446689.32	15446689.42	15446689.52	0.2652	0.1085
Mercury	37586-06-24 23:31 G	15449239.45	15449239.48	15449239.52	0.2653	0.2454
Mercury	37592-07-03 15:07 G	15451440.08	15451440.13	15451440.18	0.2652	0.2366
Mercury	37599-06-27 16:33 G	15453990.10	15453990.19	15453990.29	0.2652	0.1198
Mercury	37602-12-27 08:09 G	15455268.81	15455268.84	15455268.88	0.2679	0.2608
Mercury	37612-06-29 09:36 G	15458740.80	15458740.90	15458741.01	0.2652	0.0105
Mercury	37615-12-30 17:45 G	15460020.08	15460020.24	15460020.40	0.2679	0.0614
Mercury	37625-07-02 02:38 G	15463491.52	15463491.61	15463491.71	0.2652	0.1350
Mercury	37632-06-25 04:19 G	15466041.62	15466041.68	15466041.74	0.2653	0.2195
Mercury	37638-07-04 19:55 G	15468242.32	15468242.33	15468242.34	0.2652	0.2623
Mercury	37645-06-27 21:21 G	15470792.29	15470792.39	15470792.49	0.2652	0.0936
Mercury	37648-12-27 15:07 G	15472071.03	15472071.13	15472071.24	0.2679	0.2007
Mercury	37658-06-30 14:24 G	15475542.99	15475543.10	15475543.21	0.2652	0.0327
Mercury	37661-12-31 00:43 G	15476822.39	15476822.53	15476822.68	0.2680	0.1213
Mercury	37671-07-03 07:26 G	15480293.73	15480293.81	15480293.90	0.2652	0.1601
Mercury	37678-06-26 09:07 G	15482843.81	15482843.88	15482843.95	0.2653	0.1939

Mercury	37691-06-29 02:09 G	15487594.48	15487594.59	15487594.69	0.2652	0.0682
Venus	37694-04-25 02:24 G	15488625.45	15488625.60	15488625.75	0.2665	0.0878
Mercury	37694-12-28 22:19 G	15488873.29	15488873.43	15488873.57	0.2679	0.1393
Mercury	37704-07-01 19:12 G	15492345.19	15492345.30	15492345.40	0.2652	0.0592
Mercury	37708-01-02 07:41 G	15493624.71	15493624.82	15493624.94	0.2680	0.1809
Mercury	37717-07-04 12:14 G	15497095.93	15497096.01	15497096.08	0.2652	0.1862
Mercury	37724-06-27 13:41 G	15499645.99	15499646.07	15499646.16	0.2653	0.1685
Mercury	37737-06-30 06:43 G	15504396.68	15504396.78	15504396.89	0.2652	0.0432
Mercury	37740-12-30 05:17 G	15505675.56	15505675.72	15505675.87	0.2679	0.0800
Mercury	37750-07-02 23:45 G	15509147.39	15509147.49	15509147.60	0.2652	0.0853
Mercury	37754-01-02 14:53 G	15510427.05	15510427.12	15510427.19	0.2680	0.2408
Mercury	37763-07-05 17:02 G	15513898.14	15513898.21	15513898.27	0.2652	0.2125
Mercury	37770-06-28 18:29 G	15516448.18	15516448.27	15516448.36	0.2652	0.1428
Mercury	37783-07-01 11:31 G	15521198.87	15521198.98	15521199.09	0.2652	0.0165
Mercury	37786-12-31 12:14 G	15522477.84	15522478.01	15522478.17	0.2679	0.0204
Mercury	37796-07-03 04:33 G	15525949.59	15525949.69	15525949.79	0.2652	0.1108
Mercury	37803-06-28 06:14 G	15528499.72	15528499.76	15528499.80	0.2653	0.2425
Venus	37807-10-27 05:45 G	15530081.59	15530081.74	15530081.89	0.2666	0.0968
Mercury	37809-07-06 21:36 G	15530700.36	15530700.40	15530700.45	0.2652	0.2385
Mercury	37816-06-29 23:17 G	15533250.37	15533250.47	15533250.56	0.2652	0.1171
Mercury	37829-07-02 16:19 G	15538001.07	15538001.18	15538001.29	0.2652	0.0108
Mercury	37833-01-01 19:12 G	15539280.14	15539280.30	15539280.46	0.2679	0.0396
Mercury	37842-07-05 09:21 G	15542751.80	15542751.89	15542751.98	0.2652	0.1363
Mercury	37849-06-28 11:02 G	15545301.90	15545301.96	15545302.02	0.2653	0.2174
Mercury	37855-07-08 02:24 G	15547502.60	15547502.60	15547502.61	0.2652	0.2645
Mercury	37862-07-01 03:50 G	15550052.56	15550052.66	15550052.77	0.2652	0.0921
Mercury	37865-12-30 16:19 G	15551331.10	15551331.18	15551331.27	0.2679	0.2238
Mercury	37875-07-03 20:53 G	15554803.27	15554803.37	15554803.48	0.2652	0.0366
Mercury	37879-01-03 02:09 G	15556082.44	15556082.59	15556082.74	0.2679	0.0993
Mercury	37888-07-05 14:09 G	15559554.00	15559554.09	15559554.17	0.2652	0.1626

Mercury	37895-06-29 15:36 G	15562104.08	15562104.15	15562104.23	0.2653	0.1918
Mercury	37908-07-02 08:38 G	15566854.76	15566854.86	15566854.97	0.2652	0.0658
Mercury	37912-01-01 23:31 G	15568133.35	15568133.48	15568133.60	0.2679	0.1638
Mercury	37921-07-05 01:41 G	15571605.47	15571605.57	15571605.68	0.2652	0.0609
Mercury	37925-01-04 09:07 G	15572884.75	15572884.88	15572885.01	0.2680	0.1585
Mercury	37934-07-07 18:43 G	15576356.21	15576356.28	15576356.36	0.2652	0.1884
Venus	37937-04-28 04:19 G	15577381.53	15577381.68	15577381.83	0.2666	0.0864
Mercury	37941-06-30 20:24 G	15578906.27	15578906.35	15578906.43	0.2653	0.1662
Mercury	37954-07-03 13:26 G	15583656.95	15583657.06	15583657.16	0.2652	0.0408
Mercury	37958-01-02 06:29 G	15584935.62	15584935.77	15584935.92	0.2679	0.1029
Mercury	37967-07-06 06:29 G	15588407.67	15588407.77	15588407.87	0.2652	0.0868
Mercury	37971-01-05 16:05 G	15589687.07	15589687.17	15589687.26	0.2680	0.2175
Mercury	37980-07-07 23:31 G	15593158.42	15593158.48	15593158.54	0.2652	0.2140
Mercury	37987-07-02 01:12 G	15595708.46	15595708.55	15595708.64	0.2652	0.1406
Mercury	38000-07-03 18:00 G	15600459.15	15600459.25	15600459.36	0.2652	0.0180

39TH MILLENNIUM CE

This is a list of transits visible from Earth in the 39th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	38004-01-03 13:26 G		15601737.90	15601738.06	15601738.22	0.2679	0.0430	
Mercury	38013-07-06 11:17 G		15605209.87	15605209.97	15605210.06	0.2652	0.1126	
Mercury	38020-06-29 12:43 G		15607759.99	15607760.03	15607760.08	0.2653	0.2406	
Mercury	38026-07-09 04:19 G		15609960.63	15609960.68	15609960.72	0.2652	0.2398	

Mercury	38033-07-02 05:45 G	15612510.65	15612510.74	15612510.84	0.2652	0.1147
Venus	38042-10-30 15:21 G	15615918.12	15615918.14	15615918.16	0.2666	0.2627
Mercury	38046-07-04 22:48 G	15617261.34	15617261.45	15617261.56	0.2652	0.0122
Mercury	38050-01-03 20:24 G	15618540.19	15618540.35	15618540.52	0.2679	0.0179
Venus	38050-10-28 06:00 G	15618837.60	15618837.75	15618837.89	0.2665	0.1141
Mercury	38059-07-07 15:50 G	15622012.07	15622012.16	15622012.26	0.2652	0.1388
Mercury	38066-06-30 17:31 G	15624562.17	15624562.23	15624562.29	0.2653	0.2148
Mercury	38079-07-03 10:33 G	15629312.84	15629312.94	15629313.04	0.2652	0.0891
Mercury	38083-01-01 17:31 G	15630591.17	15630591.23	15630591.30	0.2679	0.2472
Mercury	38092-07-05 03:36 G	15634063.54	15634063.65	15634063.76	0.2652	0.0373
Mercury	38096-01-05 03:21 G	15635342.49	15635342.64	15635342.80	0.2680	0.0767
Mercury	38105-07-08 20:38 G	15638814.28	15638814.36	15638814.44	0.2652	0.1643
Mercury	38112-07-01 22:19 G	15641364.35	15641364.43	15641364.50	0.2652	0.1895
Mercury	38125-07-04 15:21 G	15646115.03	15646115.14	15646115.24	0.2652	0.0645
Mercury	38129-01-03 00:43 G	15647393.41	15647393.53	15647393.64	0.2679	0.1868
Mercury	38138-07-07 08:24 G	15650865.74	15650865.85	15650865.95	0.2652	0.0635
Mercury	38142-01-06 10:19 G	15652144.79	15652144.93	15652145.07	0.2680	0.1360
Mercury	38151-07-10 01:26 G	15655616.48	15655616.56	15655616.63	0.2652	0.1901
Mercury	38158-07-03 02:53 G	15658166.54	15658166.62	15658166.71	0.2652	0.1639
Mercury	38171-07-05 19:55 G	15662917.23	15662917.33	15662917.44	0.2652	0.0385
Mercury	38175-01-04 07:41 G	15664195.67	15664195.82	15664195.96	0.2679	0.1274
Venus	38180-04-29 06:29 G	15666137.62	15666137.77	15666137.92	0.2666	0.0849
Mercury	38184-07-07 12:57 G	15667667.94	15667668.04	15667668.15	0.2652	0.0890
Mercury	38188-01-07 17:17 G	15668947.11	15668947.22	15668947.33	0.2680	0.1952
Mercury	38191-07-01 14:38 G	15670218.11	15670218.11	15670218.12	0.2653	0.2637
Mercury	38197-07-10 06:00 G	15672418.69	15672418.75	15672418.81	0.2651	0.2156
Mercury	38204-07-04 07:41 G	15674968.73	15674968.82	15674968.91	0.2652	0.1384
Mercury	38217-07-07 00:43 G	15679719.42	15679719.53	15679719.64	0.2652	0.0122
Mercury	38221-01-05 14:38 G	15680997.95	15680998.11	15680998.27	0.2679	0.0670
Mercury	38230-07-09 17:45 G	15684470.14	15684470.24	15684470.34	0.2652	0.1144

Mercury	38234-01-09 00:14 G	15685749.46	15685749.51	15685749.56	0.2680	0.2540
Mercury	38237-07-02 19:26 G	15687020.26	15687020.31	15687020.35	0.2653	0.2381
Mercury	38243-07-12 10:48 G	15689220.91	15689220.95	15689220.99	0.2651	0.2412
Mercury	38250-07-05 12:29 G	15691770.92	15691771.02	15691771.11	0.2652	0.1130
Mercury	38263-07-08 05:31 G	15696521.62	15696521.73	15696521.83	0.2652	0.0151
Mercury	38267-01-06 21:36 G	15697800.24	15697800.40	15697800.57	0.2680	0.0073
Mercury	38276-07-09 22:33 G	15701272.35	15701272.44	15701272.53	0.2652	0.1401
Mercury	38283-07-04 00:14 G	15703822.44	15703822.51	15703822.57	0.2653	0.2128
Venus	38285-11-01 15:50 G	15704674.10	15704674.16	15704674.21	0.2665	0.2479
Venus	38293-10-30 06:14 G	15707593.62	15707593.76	15707593.90	0.2664	0.1297
Mercury	38296-07-05 17:02 G	15708573.11	15708573.21	15708573.32	0.2652	0.0878
Mercury	38309-07-09 10:05 G	15713323.82	15713323.92	15713324.03	0.2652	0.0399
Mercury	38313-01-08 04:33 G	15714602.53	15714602.69	15714602.85	0.2680	0.0540
Mercury	38322-07-12 03:07 G	15718074.55	15718074.63	15718074.72	0.2652	0.1656
Mercury	38329-07-05 04:48 G	15720624.63	15720624.70	15720624.78	0.2653	0.1869
Mercury	38342-07-07 21:50 G	15725375.31	15725375.41	15725375.52	0.2652	0.0615
Mercury	38346-01-06 01:41 G	15726653.48	15726653.57	15726653.67	0.2679	0.2113
Mercury	38355-07-10 14:53 G	15730126.02	15730126.12	15730126.22	0.2652	0.0646
Mercury	38359-01-09 11:46 G	15731404.84	15731404.99	15731405.13	0.2680	0.1132
Mercury	38368-07-12 07:55 G	15734876.76	15734876.83	15734876.90	0.2652	0.1910
Mercury	38375-07-06 09:36 G	15737426.82	15737426.90	15737426.98	0.2652	0.1617
Mercury	38388-07-08 02:38 G	15742177.50	15742177.61	15742177.72	0.2652	0.0359
Mercury	38392-01-07 08:53 G	15743455.73	15743455.87	15743456.00	0.2679	0.1507
Mercury	38401-07-10 19:41 G	15746928.22	15746928.32	15746928.42	0.2652	0.0906
Mercury	38405-01-09 18:43 G	15748207.15	15748207.28	15748207.40	0.2680	0.1725
Mercury	38408-07-03 21:22 G	15749478.37	15749478.39	15749478.40	0.2653	0.2615
Mercury	38414-07-13 12:43 G	15751678.97	15751679.03	15751679.09	0.2651	0.2171
Mercury	38421-07-06 14:24 G	15754229.00	15754229.10	15754229.19	0.2652	0.1364
Venus	38423-05-02 08:24 G	15754893.70	15754893.85	15754894.00	0.2667	0.0831
Mercury	38434-07-09 07:12 G	15758979.70	15758979.80	15758979.91	0.2652	0.0157

Mercury	38438-01-07 15:50 G	15760258.01	15760258.16	15760258.32	0.2680	0.0903
Mercury	38447-07-12 00:14 G	15763730.42	15763730.51	15763730.61	0.2652	0.1161
Mercury	38451-01-11 01:41 G	15765009.49	15765009.57	15765009.65	0.2680	0.2318
Mercury	38454-07-05 01:55 G	15766280.54	15766280.58	15766280.63	0.2653	0.2361
Mercury	38460-07-13 17:17 G	15768481.18	15768481.22	15768481.27	0.2651	0.2431
Mercury	38467-07-07 18:58 G	15771031.20	15771031.29	15771031.39	0.2652	0.1111
Mercury	38480-07-09 12:00 G	15775781.89	15775782.00	15775782.11	0.2652	0.0150
Mercury	38484-01-08 22:48 G	15777060.29	15777060.45	15777060.62	0.2680	0.0310
Mercury	38493-07-12 05:02 G	15780532.62	15780532.71	15780532.80	0.2652	0.1413
Mercury	38500-07-06 06:43 G	15783082.72	15783082.78	15783082.84	0.2653	0.2105
Mercury	38513-07-08 23:46 G	15787833.39	15787833.49	15787833.59	0.2652	0.0852
Mercury	38526-07-11 16:48 G	15792584.09	15792584.20	15792584.30	0.2652	0.0412
Venus	38528-11-03 15:50 G	15793430.08	15793430.16	15793430.24	0.2664	0.2289
Mercury	38530-01-10 05:46 G	15793862.58	15793862.74	15793862.91	0.2680	0.0291
Venus	38536-11-01 06:29 G	15796349.64	15796349.77	15796349.90	0.2664	0.1458
Mercury	38539-07-14 09:50 G	15797334.82	15797334.91	15797334.99	0.2651	0.1670
Mercury	38546-07-07 11:31 G	15799884.90	15799884.98	15799885.05	0.2652	0.1853
Mercury	38559-07-10 04:34 G	15804635.58	15804635.69	15804635.79	0.2652	0.0609
Mercury	38563-01-08 02:53 G	15805913.55	15805913.62	15805913.70	0.2679	0.2355
Mercury	38572-07-11 21:22 G	15809386.29	15809386.39	15809386.50	0.2652	0.0665
Mercury	38576-01-11 12:58 G	15810664.88	15810665.04	15810665.19	0.2680	0.0892
Mercury	38585-07-14 14:24 G	15814137.03	15814137.10	15814137.18	0.2651	0.1929
Mercury	38592-07-07 16:05 G	15816687.09	15816687.17	15816687.26	0.2652	0.1600
Mercury	38605-07-11 09:07 G	15821437.78	15821437.88	15821437.99	0.2652	0.0347
Mercury	38609-01-09 10:05 G	15822715.79	15822715.92	15822716.04	0.2680	0.1746
Mercury	38618-07-14 02:10 G	15826188.49	15826188.59	15826188.69	0.2652	0.0915
Mercury	38622-01-12 19:55 G	15827467.19	15827467.33	15827467.46	0.2680	0.1492
Mercury	38625-07-07 03:50 G	15828738.64	15828738.66	15828738.68	0.2653	0.2592
Mercury	38631-07-16 19:12 G	15830939.24	15830939.30	15830939.36	0.2651	0.2183
Mercury	38638-07-09 20:53 G	15833489.28	15833489.37	15833489.46	0.2652	0.1345

Mercury	38651-07-12 13:55 G	15838239.97	15838240.08	15838240.19	0.2652	0.0106
Mercury	38655-01-10 17:02 G	15839518.06	15839518.21	15839518.36	0.2680	0.1146
Mercury	38664-07-14 06:58 G	15842990.69	15842990.79	15842990.88	0.2652	0.1174
Venus	38666-05-04 10:19 G	15843649.78	15843649.93	15843650.08	0.2668	0.0802
Mercury	38668-01-14 02:53 G	15844269.52	15844269.62	15844269.72	0.2680	0.2086
Mercury	38671-07-08 08:38 G	15845540.81	15845540.86	15845540.91	0.2653	0.2339
Mercury	38677-07-17 00:00 G	15847741.46	15847741.50	15847741.54	0.2651	0.2438
Mercury	38684-07-10 01:41 G	15850291.47	15850291.57	15850291.66	0.2652	0.1090
Mercury	38697-07-12 18:29 G	15855042.17	15855042.27	15855042.38	0.2652	0.0202
Mercury	38701-01-12 00:00 G	15856320.34	15856320.50	15856320.66	0.2680	0.0550
Mercury	38710-07-16 11:46 G	15859792.90	15859792.99	15859793.08	0.2652	0.1433
Mercury	38714-01-15 09:50 G	15861071.91	15861071.91	15861071.92	0.2680	0.2675
Mercury	38717-07-09 13:26 G	15862342.99	15862343.06	15862343.12	0.2652	0.2089
Mercury	38730-07-12 06:14 G	15867093.66	15867093.76	15867093.87	0.2652	0.0841
Mercury	38743-07-14 23:17 G	15871844.37	15871844.47	15871844.58	0.2652	0.0427
Mercury	38747-01-13 06:58 G	15873122.63	15873122.79	15873122.96	0.2680	0.0081
Mercury	38756-07-16 16:19 G	15876595.10	15876595.18	15876595.26	0.2651	0.1687
Mercury	38763-07-10 18:00 G	15879145.18	15879145.25	15879145.33	0.2652	0.1835
Venus	38771-11-06 16:19 G	15882186.08	15882186.18	15882186.27	0.2664	0.2139
Mercury	38776-07-12 11:02 G	15883895.85	15883895.96	15883896.06	0.2652	0.0581
Venus	38779-11-04 06:58 G	15885105.66	15885105.79	15885105.91	0.2663	0.1604
Mercury	38780-01-11 04:05 G	15885173.64	15885173.67	15885173.70	0.2679	0.2608
Mercury	38789-07-15 04:05 G	15888646.57	15888646.67	15888646.77	0.2652	0.0675
Mercury	38793-01-13 14:10 G	15889924.93	15889925.09	15889925.25	0.2680	0.0657
Mercury	38802-07-17 21:07 G	15893397.31	15893397.38	15893397.45	0.2651	0.1942
Mercury	38809-07-10 22:48 G	15895947.36	15895947.45	15895947.53	0.2652	0.1583
Mercury	38822-07-13 15:50 G	15900698.05	15900698.16	15900698.26	0.2652	0.0344
Mercury	38826-01-11 11:02 G	15901975.85	15901975.96	15901976.07	0.2679	0.2005
Mercury	38835-07-16 08:53 G	15905448.77	15905448.87	15905448.97	0.2652	0.0938
Mercury	38839-01-14 21:07 G	15906727.23	15906727.38	15906727.52	0.2680	0.1243

Mercury	38842-07-09 10:34 G	15907998.92	15907998.94	15907998.96	0.2653	0.2575
Mercury	38848-07-18 01:55 G	15910199.52	15910199.58	15910199.63	0.2651	0.2196
Mercury	38855-07-12 03:22 G	15912749.55	15912749.64	15912749.74	0.2652	0.1332
Mercury	38868-07-13 20:24 G	15917500.25	15917500.35	15917500.46	0.2652	0.0106
Mercury	38872-01-12 18:00 G	15918778.11	15918778.25	15918778.39	0.2680	0.1405
Mercury	38881-07-16 13:26 G	15922250.97	15922251.06	15922251.16	0.2651	0.1186
Mercury	38885-01-15 04:05 G	15923529.55	15923529.67	15923529.79	0.2680	0.1838
Mercury	38888-07-09 15:07 G	15924801.09	15924801.13	15924801.18	0.2653	0.2324
Mercury	38894-07-19 06:29 G	15927001.73	15927001.77	15927001.81	0.2651	0.2450
Mercury	38901-07-13 08:10 G	15929551.74	15929551.84	15929551.94	0.2652	0.1075
Venus	38909-05-06 12:14 G	15932405.86	15932406.01	15932406.16	0.2668	0.0783
Mercury	38914-07-16 01:12 G	15934302.44	15934302.55	15934302.66	0.2652	0.0183
Mercury	38918-01-14 01:12 G	15935580.39	15935580.55	15935580.71	0.2680	0.0792
Mercury	38927-07-18 18:14 G	15939053.17	15939053.26	15939053.35	0.2651	0.1442
Mercury	38931-01-17 11:02 G	15940331.89	15940331.96	15940332.03	0.2680	0.2433
Mercury	38934-07-11 19:55 G	15941603.27	15941603.33	15941603.40	0.2653	0.2070
Mercury	38947-07-14 12:58 G	15946353.94	15946354.04	15946354.14	0.2652	0.0817
Mercury	38960-07-16 06:00 G	15951104.64	15951104.75	15951104.85	0.2652	0.0440
Mercury	38964-01-15 08:10 G	15952382.68	15952382.84	15952383.01	0.2680	0.0196
Mercury	38973-07-18 23:02 G	15955855.37	15955855.46	15955855.54	0.2651	0.1699
Mercury	38980-07-12 00:43 G	15958405.45	15958405.53	15958405.60	0.2652	0.1816
Mercury	38993-07-14 17:46 G	15963156.13	15963156.24	15963156.34	0.2652	0.0575

40TH MILLENNIUM CE

This is a list of transits visible from Earth in the 40th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	39006-07-18 10:34 G		15967906.84	15967906.94	15967907.05	0.2652	0.0699	
Mercury	39010-01-16 15:07 G		15969184.97	15969185.13	15969185.30	0.2680	0.0411	
Venus	39014-11-08 16:34 G		15970942.08	15970942.19	15970942.29	0.2663	0.1977	
Mercury	39019-07-21 03:36 G		15972657.58	15972657.65	15972657.72	0.2651	0.1953	
Venus	39022-11-06 07:12 G		15973861.68	15973861.80	15973861.92	0.2662	0.1748	
Mercury	39026-07-14 05:17 G		15975207.64	15975207.72	15975207.81	0.2652	0.1566	
Mercury	39039-07-16 22:19 G		15979958.33	15979958.43	15979958.54	0.2652	0.0317	
Mercury	39043-01-14 12:14 G		15981235.92	15981236.01	15981236.09	0.2679	0.2257	
Mercury	39052-07-18 15:22 G		15984709.04	15984709.14	15984709.24	0.2651	0.0946	
Mercury	39056-01-17 22:19 G		15985987.27	15985987.43	15985987.58	0.2680	0.1005	
Mercury	39059-07-12 17:02 G		15987259.19	15987259.21	15987259.24	0.2653	0.2558	
Mercury	39065-07-21 08:24 G		15989459.79	15989459.85	15989459.91	0.2651	0.2206	
Mercury	39072-07-14 10:05 G		15992009.83	15992009.92	15992010.01	0.2652	0.1310	
Mercury	39085-07-17 03:07 G		15996760.52	15996760.63	15996760.74	0.2652	0.0058	
Mercury	39089-01-14 19:12 G		15998038.17	15998038.30	15998038.43	0.2679	0.1646	
Mercury	39098-07-19 20:10 G		16001511.24	16001511.34	16001511.43	0.2651	0.1204	
Mercury	39102-01-19 05:17 G		16002789.59	16002789.72	16002789.85	0.2680	0.1599	
Mercury	39105-07-13 21:50 G		16004061.36	16004061.41	16004061.46	0.2653	0.2307	
Mercury	39111-07-23 13:12 G		16006262.01	16006262.05	16006262.08	0.2651	0.2462	
Mercury	39118-07-16 14:53 G		16008812.02	16008812.12	16008812.22	0.2652	0.1058	
Mercury	39131-07-19 07:55 G		16013562.72	16013562.83	16013562.93	0.2652	0.0227	
Mercury	39135-01-17 02:10 G		16014840.44	16014840.59	16014840.75	0.2680	0.1053	
Mercury	39144-07-21 00:43 G		16018313.44	16018313.53	16018313.62	0.2651	0.1454	
Mercury	39148-01-20 12:14 G		16019591.92	16019592.01	16019592.10	0.2680	0.2199	
Mercury	39151-07-15 02:38 G		16020863.54	16020863.61	16020863.67	0.2653	0.2053	
Venus	39152-05-08 13:55 G		16021161.92	16021162.08	16021162.23	0.2669	0.0741	
Mercury	39164-07-16 19:26 G		16025614.21	16025614.31	16025614.42	0.2652	0.0812	

Mercury	39177-07-19 12:29 G	16030364.91	16030365.02	16030365.13	0.2652	0.0449
Mercury	39181-01-17 09:22 G	16031642.73	16031642.89	16031643.05	0.2680	0.0447
Mercury	39190-07-22 05:31 G	16035115.65	16035115.73	16035115.81	0.2651	0.1708
Mercury	39197-07-15 07:12 G	16037665.73	16037665.80	16037665.88	0.2653	0.1801
Mercury	39210-07-18 00:14 G	16042416.41	16042416.51	16042416.62	0.2652	0.0549
Mercury	39223-07-20 17:17 G	16047167.11	16047167.22	16047167.32	0.2652	0.0705
Mercury	39227-01-18 16:19 G	16048445.02	16048445.18	16048445.35	0.2680	0.0161
Mercury	39236-07-22 10:19 G	16051917.86	16051917.93	16051918.00	0.2651	0.1960
Mercury	39243-07-16 12:00 G	16054467.91	16054468.00	16054468.09	0.2652	0.1545
Mercury	39256-07-18 05:02 G	16059218.60	16059218.71	16059218.81	0.2652	0.0302
Venus	39257-11-09 17:02 G	16059698.10	16059698.21	16059698.32	0.2662	0.1843
Mercury	39260-01-16 13:26 G	16060496.00	16060496.06	16060496.12	0.2679	0.2496
Venus	39265-11-07 07:41 G	16062617.71	16062617.82	16062617.94	0.2662	0.1871
Mercury	39269-07-20 21:50 G	16063969.31	16063969.41	16063969.51	0.2652	0.0964
Mercury	39273-01-18 23:31 G	16065247.32	16065247.48	16065247.63	0.2680	0.0762
Mercury	39276-07-13 23:46 G	16066519.46	16066519.49	16066519.52	0.2653	0.2540
Mercury	39282-07-23 14:53 G	16068720.07	16068720.12	16068720.18	0.2651	0.2218
Mercury	39289-07-16 16:48 G	16071270.10	16071270.20	16071270.29	0.2652	0.1294
Mercury	39302-07-20 09:36 G	16076020.80	16076020.90	16076021.01	0.2652	0.0088
Mercury	39306-01-17 20:24 G	16077298.23	16077298.35	16077298.46	0.2679	0.1901
Mercury	39315-07-23 02:38 G	16080771.52	16080771.61	16080771.71	0.2651	0.1211
Mercury	39319-01-21 06:29 G	16082049.63	16082049.77	16082049.91	0.2680	0.1361
Mercury	39322-07-16 04:34 G	16083321.64	16083321.69	16083321.74	0.2653	0.2288
Mercury	39328-07-24 19:41 G	16085522.29	16085522.32	16085522.36	0.2651	0.2471
Mercury	39335-07-18 21:22 G	16088072.30	16088072.39	16088072.49	0.2652	0.1044
Mercury	39348-07-20 14:24 G	16092822.99	16092823.10	16092823.21	0.2652	0.0208
Mercury	39352-01-19 03:22 G	16094100.50	16094100.64	16094100.79	0.2680	0.1296
Mercury	39361-07-23 07:26 G	16097573.72	16097573.81	16097573.90	0.2651	0.1468
Mercury	39365-01-21 13:26 G	16098851.95	16098852.06	16098852.17	0.2680	0.1947
Mercury	39368-07-16 09:07 G	16100123.82	16100123.88	16100123.95	0.2653	0.2035

Mercury	39381-07-19 02:10 G	16104874.49	16104874.59	16104874.69	0.2652	0.0788
Mercury	39394-07-21 19:12 G	16109625.19	16109625.30	16109625.40	0.2652	0.0470
Venus	39395-05-10 15:50 G	16109918.00	16109918.16	16109918.31	0.2670	0.0724
Mercury	39398-01-19 10:34 G	16110902.78	16110902.94	16110903.09	0.2680	0.0703
Mercury	39407-07-25 12:14 G	16114375.93	16114376.01	16114376.09	0.2651	0.1720
Mercury	39411-01-23 20:24 G	16115654.31	16115654.35	16115654.40	0.2680	0.2549
Mercury	39414-07-18 13:55 G	16116926.00	16116926.08	16116926.16	0.2652	0.1784
Mercury	39427-07-21 06:43 G	16121676.68	16121676.78	16121676.89	0.2652	0.0549
Mercury	39440-07-22 23:46 G	16126427.39	16126427.49	16126427.60	0.2652	0.0720
Mercury	39444-01-21 17:31 G	16127705.06	16127705.23	16127705.39	0.2680	0.0095
Mercury	39453-07-25 16:48 G	16131178.13	16131178.20	16131178.27	0.2651	0.1975
Mercury	39460-07-18 18:29 G	16133728.19	16133728.27	16133728.36	0.2652	0.1538
Mercury	39473-07-21 11:31 G	16138478.87	16138478.98	16138479.09	0.2652	0.0286
Mercury	39486-07-24 04:34 G	16143229.59	16143229.69	16143229.79	0.2651	0.0969
Mercury	39490-01-22 00:29 G	16144507.36	16144507.52	16144507.68	0.2680	0.0506
Mercury	39493-07-17 06:29 G	16145779.74	16145779.77	16145779.80	0.2653	0.2523
Mercury	39499-07-26 21:36 G	16147980.34	16147980.40	16147980.46	0.2651	0.2226
Venus	39500-11-12 17:31 G	16148454.11	16148454.23	16148454.35	0.2662	0.1705
Mercury	39506-07-20 23:17 G	16150530.38	16150530.47	16150530.56	0.2652	0.1280
Venus	39508-11-10 08:24 G	16151373.75	16151373.85	16151373.96	0.2661	0.1990
Mercury	39519-07-23 16:19 G	16155281.07	16155281.18	16155281.29	0.2652	0.0049
Mercury	39523-01-20 21:36 G	16156558.30	16156558.40	16156558.49	0.2680	0.2153
Mercury	39532-07-25 09:22 G	16160031.79	16160031.89	16160031.98	0.2651	0.1224
Mercury	39536-01-24 07:41 G	16161309.67	16161309.82	16161309.97	0.2680	0.1105
Mercury	39539-07-19 11:02 G	16162581.91	16162581.96	16162582.02	0.2653	0.2270
Mercury	39545-07-28 02:10 G	16164782.56	16164782.59	16164782.63	0.2651	0.2482
Mercury	39552-07-21 04:05 G	16167332.57	16167332.67	16167332.77	0.2652	0.1028
Mercury	39565-07-23 21:07 G	16172083.27	16172083.38	16172083.48	0.2652	0.0243
Mercury	39569-01-21 04:34 G	16173360.56	16173360.69	16173360.82	0.2680	0.1553
Mercury	39578-07-26 13:55 G	16176834.00	16176834.08	16176834.17	0.2651	0.1477

Mercury	39582-01-24 14:38 G	16178111.99	16178112.11	16178112.24	0.2680	0.1707
Mercury	39585-07-19 15:50 G	16179384.09	16179384.16	16179384.23	0.2652	0.2021
Mercury	39598-07-22 08:38 G	16184134.76	16184134.86	16184134.97	0.2652	0.0782
Mercury	39611-07-25 01:41 G	16188885.47	16188885.57	16188885.68	0.2652	0.0482
Mercury	39615-01-22 11:31 G	16190162.83	16190162.98	16190163.14	0.2680	0.0946
Mercury	39624-07-26 18:43 G	16193636.20	16193636.28	16193636.36	0.2651	0.1731
Mercury	39628-01-25 21:36 G	16194914.32	16194914.40	16194914.49	0.2680	0.2301
Mercury	39631-07-20 20:24 G	16196186.28	16196186.35	16196186.43	0.2652	0.1773
Venus	39638-05-12 17:17 G	16198674.07	16198674.22	16198674.38	0.2670	0.0669
Mercury	39644-07-22 13:26 G	16200936.96	16200937.06	16200937.17	0.2652	0.0524
Mercury	39657-07-25 06:29 G	16205687.67	16205687.77	16205687.87	0.2652	0.0730
Mercury	39661-01-22 18:43 G	16206965.11	16206965.28	16206965.44	0.2680	0.0349
Mercury	39670-07-27 23:31 G	16210438.41	16210438.48	16210438.55	0.2651	0.1984
Mercury	39677-07-21 01:12 G	16212988.46	16212988.55	16212988.64	0.2652	0.1519
Mercury	39690-07-23 18:14 G	16217739.15	16217739.26	16217739.37	0.2652	0.0273
Mercury	39703-07-27 11:17 G	16222489.87	16222489.97	16222490.07	0.2652	0.0986
Mercury	39707-01-25 01:41 G	16223767.41	16223767.57	16223767.74	0.2680	0.0259
Mercury	39710-07-20 12:58 G	16225040.01	16225040.04	16225040.07	0.2653	0.2511
Mercury	39716-07-29 04:05 G	16227240.62	16227240.67	16227240.73	0.2651	0.2239
Mercury	39723-07-23 06:00 G	16229790.65	16229790.75	16229790.84	0.2652	0.1267
Mercury	39736-07-24 22:48 G	16234541.35	16234541.45	16234541.56	0.2652	0.0118
Mercury	39740-01-22 22:34 G	16235818.37	16235818.44	16235818.51	0.2679	0.2420
Venus	39743-11-14 18:14 G	16237210.13	16237210.26	16237210.38	0.2661	0.1588
Mercury	39749-07-27 15:50 G	16239292.07	16239292.16	16239292.26	0.2651	0.1234
Venus	39751-11-12 09:07 G	16240129.78	16240129.88	16240129.97	0.2660	0.2105
Mercury	39753-01-25 08:38 G	16240569.71	16240569.86	16240570.02	0.2680	0.0851
Mercury	39756-07-20 17:46 G	16241842.18	16241842.24	16241842.29	0.2653	0.2260
Mercury	39762-07-30 08:53 G	16244042.84	16244042.87	16244042.90	0.2651	0.2485
Mercury	39769-07-23 10:34 G	16246592.85	16246592.94	16246593.04	0.2652	0.1021
Mercury	39782-07-26 03:36 G	16251343.54	16251343.65	16251343.76	0.2652	0.0237

Mercury	39786-01-23 05:31 G	16252620.61	16252620.73	16252620.86	0.2680	0.1812
Mercury	39795-07-28 20:38 G	16256094.27	16256094.36	16256094.45	0.2651	0.1487
Mercury	39799-01-26 15:50 G	16257372.02	16257372.16	16257372.29	0.2680	0.1448
Mercury	39802-07-22 22:19 G	16258644.37	16258644.43	16258644.50	0.2653	0.2010
Mercury	39815-07-25 15:22 G	16263395.04	16263395.14	16263395.24	0.2652	0.0763
Mercury	39828-07-27 08:24 G	16268145.74	16268145.85	16268145.95	0.2652	0.0489
Mercury	39832-01-25 12:43 G	16269422.88	16269423.03	16269423.18	0.2680	0.1206
Mercury	39841-07-30 01:12 G	16272896.47	16272896.55	16272896.63	0.2651	0.1740
Mercury	39845-01-27 22:48 G	16274174.35	16274174.45	16274174.56	0.2680	0.2047
Mercury	39848-07-23 03:07 G	16275446.55	16275446.63	16275446.71	0.2652	0.1754
Mercury	39861-07-25 20:10 G	16280197.23	16280197.34	16280197.44	0.2652	0.0514
Mercury	39874-07-28 12:58 G	16284947.94	16284948.04	16284948.15	0.2652	0.0742
Mercury	39878-01-25 19:55 G	16286225.17	16286225.33	16286225.49	0.2680	0.0601
Venus	39881-05-14 19:12 G	16287430.14	16287430.30	16287430.45	0.2671	0.0654
Mercury	39887-07-31 06:00 G	16289698.68	16289698.75	16289698.82	0.2651	0.1990
Mercury	39891-01-29 05:46 G	16290976.72	16290976.74	16290976.77	0.2680	0.2643
Mercury	39894-07-24 07:55 G	16292248.74	16292248.83	16292248.92	0.2652	0.1502
Mercury	39907-07-28 00:43 G	16296999.43	16296999.53	16296999.64	0.2652	0.0272
Mercury	39920-07-29 17:46 G	16301750.14	16301750.24	16301750.34	0.2651	0.0992
Mercury	39924-01-28 02:53 G	16303027.45	16303027.62	16303027.78	0.2680	0.0038
Mercury	39927-07-23 19:41 G	16304300.28	16304300.32	16304300.35	0.2653	0.2495
Mercury	39933-08-01 10:48 G	16306500.89	16306500.95	16306501.00	0.2651	0.2241
Mercury	39940-07-25 12:29 G	16309050.93	16309051.02	16309051.12	0.2652	0.1258
Mercury	39953-07-28 05:31 G	16313801.62	16313801.73	16313801.84	0.2652	0.0007
Mercury	39957-01-24 23:46 G	16315078.48	16315078.49	16315078.50	0.2679	0.2672
Mercury	39966-07-30 22:34 G	16318552.34	16318552.44	16318552.53	0.2651	0.1247
Mercury	39970-01-28 09:50 G	16319829.75	16319829.91	16319830.07	0.2680	0.0599
Mercury	39973-07-24 00:14 G	16321102.46	16321102.51	16321102.57	0.2653	0.2248
Mercury	39979-08-02 15:36 G	16323303.11	16323303.15	16323303.18	0.2651	0.2497
Mercury	39986-07-26 17:17 G	16325853.12	16325853.22	16325853.32	0.2652	0.1001

Venus	39986-11-16 18:58 G	16325966.15	16325966.29	16325966.42	0.2660	0.1467
Venus	39994-11-14 09:50 G	16328885.82	16328885.91	16328886.00	0.2660	0.2193
Mercury	39999-07-29 10:19 G	16330603.82	16330603.93	16330604.03	0.2652	0.0260

41ST MILLENNIUM CE

This is a list of transits visible from Earth in the 41st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	40003-01-26 06:43 G		16331880.68	16331880.78	16331880.88	0.2679	0.2069	
Mercury	40012-07-31 03:07 G		16335354.55	16335354.63	16335354.72	0.2651	0.1497	
Mercury	40016-01-29 17:02 G		16336632.06	16336632.21	16336632.35	0.2680	0.1197	
Mercury	40019-07-25 05:02 G		16337904.64	16337904.71	16337904.78	0.2653	0.1993	
Mercury	40032-07-26 22:05 G		16342655.31	16342655.42	16342655.52	0.2652	0.0759	
Mercury	40045-07-29 14:53 G		16347406.02	16347406.12	16347406.23	0.2652	0.0498	
Mercury	40049-01-26 13:41 G		16348682.94	16348683.07	16348683.21	0.2679	0.1472	
Mercury	40058-08-01 07:55 G		16352156.75	16352156.83	16352156.91	0.2651	0.1744	
Mercury	40062-01-30 00:00 G		16353434.38	16353434.50	16353434.62	0.2680	0.1791	
Mercury	40065-07-25 09:50 G		16354706.83	16354706.91	16354706.99	0.2653	0.1745	
Mercury	40078-07-28 02:38 G		16359457.51	16359457.61	16359457.72	0.2652	0.0501	
Mercury	40091-07-30 19:41 G		16364208.22	16364208.32	16364208.42	0.2651	0.0747	
Mercury	40095-01-27 20:53 G		16365485.21	16365485.37	16365485.52	0.2680	0.0878	
Mercury	40104-08-02 12:43 G		16368958.96	16368959.03	16368959.10	0.2651	0.1996	
Mercury	40108-02-01 06:58 G		16370236.72	16370236.79	16370236.86	0.2680	0.2380	
Mercury	40111-07-27 14:24 G		16371509.02	16371509.10	16371509.19	0.2652	0.1495	

Venus	40124-05-16 20:38 G	16376186.20	16376186.36	16376186.51	0.2672	0.0584
Mercury	40124-07-29 07:26 G	16376259.70	16376259.81	16376259.92	0.2652	0.0252
Mercury	40137-08-01 00:29 G	16381010.42	16381010.52	16381010.61	0.2652	0.1003
Mercury	40141-01-29 03:50 G	16382287.50	16382287.66	16382287.83	0.2680	0.0269
Mercury	40144-07-25 02:10 G	16383560.56	16383560.59	16383560.63	0.2653	0.2485
Mercury	40150-08-03 17:17 G	16385761.17	16385761.22	16385761.28	0.2651	0.2248
Mercury	40157-07-27 19:12 G	16388311.20	16388311.30	16388311.39	0.2652	0.1242
Mercury	40170-07-30 12:14 G	16393061.90	16393062.01	16393062.11	0.2652	0.0115
Mercury	40183-08-02 05:02 G	16397812.62	16397812.71	16397812.81	0.2651	0.1249
Mercury	40187-01-30 11:02 G	16399089.79	16399089.96	16399090.12	0.2680	0.0339
Mercury	40190-07-26 06:58 G	16400362.73	16400362.79	16400362.85	0.2653	0.2230
Mercury	40196-08-03 22:05 G	16402563.39	16402563.42	16402563.45	0.2651	0.2498
Mercury	40203-07-30 00:00 G	16405113.40	16405113.50	16405113.59	0.2652	0.0998
Mercury	40216-07-31 16:48 G	16409864.09	16409864.20	16409864.31	0.2652	0.0256
Mercury	40220-01-29 07:41 G	16411140.75	16411140.82	16411140.90	0.2679	0.2335
Mercury	40229-08-03 09:50 G	16414614.82	16414614.91	16414615.00	0.2651	0.1501
Venus	40229-11-18 19:26 G	16414722.18	16414722.31	16414722.45	0.2660	0.1358
Mercury	40233-01-31 18:00 G	16415892.10	16415892.25	16415892.41	0.2680	0.0939
Mercury	40236-07-27 11:46 G	16417164.92	16417164.99	16417165.06	0.2653	0.1985
Venus	40237-11-16 10:34 G	16417641.86	16417641.94	16417642.01	0.2659	0.2313
Mercury	40249-07-30 04:34 G	16421915.59	16421915.69	16421915.79	0.2652	0.0740
Mercury	40262-08-01 21:36 G	16426666.29	16426666.40	16426666.50	0.2652	0.0506
Mercury	40266-01-29 14:53 G	16427942.99	16427943.12	16427943.24	0.2679	0.1737
Mercury	40275-08-04 14:38 G	16431417.03	16431417.11	16431417.18	0.2651	0.1755
Mercury	40279-02-02 00:58 G	16432694.41	16432694.54	16432694.68	0.2680	0.1531
Mercury	40282-07-28 16:19 G	16433967.10	16433967.18	16433967.26	0.2653	0.1733
Mercury	40295-07-31 09:22 G	16438717.78	16438717.89	16438717.99	0.2652	0.0495
Mercury	40308-08-03 02:24 G	16443468.49	16443468.60	16443468.70	0.2652	0.0763
Mercury	40312-01-31 21:50 G	16444745.26	16444745.41	16444745.56	0.2679	0.1131
Mercury	40321-08-05 19:12 G	16448219.23	16448219.30	16448219.37	0.2651	0.2004

Mercury	40325-02-03 08:10 G	16449496.74	16449496.84	16449496.94	0.2680	0.2127
Mercury	40328-07-29 21:07 G	16450769.29	16450769.38	16450769.47	0.2653	0.1487
Mercury	40341-08-01 13:55 G	16455519.98	16455520.08	16455520.19	0.2652	0.0261
Mercury	40354-08-04 06:58 G	16460270.69	16460270.79	16460270.89	0.2651	0.1004
Mercury	40358-02-01 05:02 G	16461547.55	16461547.71	16461547.87	0.2680	0.0531
Mercury	40361-07-28 08:53 G	16462820.83	16462820.87	16462820.90	0.2653	0.2473
Venus	40367-05-19 22:05 G	16464942.27	16464942.42	16464942.58	0.2672	0.0552
Mercury	40367-08-07 00:00 G	16465021.44	16465021.50	16465021.55	0.2651	0.2253
Mercury	40374-07-31 01:41 G	16467571.48	16467571.57	16467571.67	0.2652	0.1238
Mercury	40387-08-02 18:43 G	16472322.17	16472322.28	16472322.39	0.2652	0.0018
Mercury	40400-08-04 11:46 G	16477072.89	16477072.99	16477073.08	0.2651	0.1258
Mercury	40404-02-02 12:00 G	16478349.84	16478350.00	16478350.17	0.2680	0.0069
Mercury	40407-07-29 13:26 G	16479623.01	16479623.06	16479623.12	0.2653	0.2227
Mercury	40413-08-07 04:34 G	16481823.66	16481823.69	16481823.73	0.2651	0.2504
Mercury	40420-07-31 06:29 G	16484373.67	16484373.77	16484373.87	0.2652	0.0984
Mercury	40433-08-02 23:31 G	16489124.37	16489124.48	16489124.58	0.2652	0.0267
Mercury	40437-01-30 08:38 G	16490400.83	16490400.86	16490400.90	0.2679	0.2608
Mercury	40446-08-05 16:19 G	16493875.10	16493875.18	16493875.27	0.2651	0.1505
Mercury	40450-02-02 18:58 G	16495152.13	16495152.29	16495152.45	0.2680	0.0666
Mercury	40453-07-29 18:14 G	16496425.19	16496425.26	16496425.33	0.2653	0.1972
Mercury	40466-08-01 11:17 G	16501175.86	16501175.97	16501176.07	0.2652	0.0736
Venus	40472-11-19 20:24 G	16503478.21	16503478.35	16503478.49	0.2659	0.1254
Mercury	40479-08-04 04:05 G	16505926.57	16505926.67	16505926.78	0.2652	0.0518
Venus	40480-11-17 11:31 G	16506397.91	16506397.98	16506398.05	0.2658	0.2377
Mercury	40483-01-31 16:05 G	16507203.06	16507203.17	16507203.27	0.2679	0.1995
Mercury	40492-08-05 21:07 G	16510677.30	16510677.38	16510677.46	0.2651	0.1756
Mercury	40496-02-04 02:10 G	16511954.45	16511954.59	16511954.74	0.2680	0.1267
Mercury	40499-07-30 23:02 G	16513227.38	16513227.46	16513227.54	0.2653	0.1727
Mercury	40512-08-02 15:50 G	16517978.06	16517978.16	16517978.27	0.2652	0.0490
Mercury	40525-08-05 08:53 G	16522728.77	16522728.87	16522728.97	0.2652	0.0761

Mercury	40529-02-01 23:02 G	16524005.32	16524005.46	16524005.60	0.2679	0.1394
Mercury	40538-08-08 01:55 G	16527479.51	16527479.58	16527479.65	0.2651	0.2006
Mercury	40542-02-05 09:22 G	16528756.77	16528756.89	16528757.00	0.2680	0.1869
Mercury	40545-08-01 03:36 G	16530029.57	16530029.65	16530029.74	0.2653	0.1478
Mercury	40558-08-03 20:38 G	16534780.25	16534780.36	16534780.47	0.2652	0.0234
Mercury	40571-08-06 13:41 G	16539530.97	16539531.07	16539531.16	0.2652	0.1016
Mercury	40575-02-03 06:00 G	16540807.60	16540807.75	16540807.91	0.2679	0.0800
Mercury	40578-07-30 15:22 G	16542081.11	16542081.14	16542081.18	0.2653	0.2467
Mercury	40584-08-08 06:29 G	16544281.72	16544281.77	16544281.83	0.2651	0.2260
Mercury	40588-02-06 16:19 G	16545559.12	16545559.18	16545559.24	0.2680	0.2458
Mercury	40591-08-02 08:24 G	16546831.76	16546831.85	16546831.95	0.2653	0.1225
Mercury	40604-08-05 01:26 G	16551582.45	16551582.56	16551582.66	0.2652	0.0086
Venus	40610-05-21 23:31 G	16553698.32	16553698.48	16553698.63	0.2673	0.0471
Mercury	40617-08-07 18:14 G	16556333.17	16556333.26	16556333.36	0.2651	0.1262
Mercury	40621-02-04 13:12 G	16557609.88	16557610.05	16557610.21	0.2680	0.0214
Mercury	40624-07-31 20:10 G	16558883.28	16558883.34	16558883.40	0.2653	0.2216
Mercury	40630-08-10 11:17 G	16561083.94	16561083.97	16561084.00	0.2651	0.2506
Mercury	40637-08-03 13:12 G	16563633.95	16563634.05	16563634.15	0.2652	0.0979
Mercury	40650-08-06 06:00 G	16568384.65	16568384.75	16568384.86	0.2652	0.0270
Mercury	40663-08-08 23:02 G	16573135.37	16573135.46	16573135.55	0.2651	0.1512
Mercury	40667-02-05 20:10 G	16574412.18	16574412.34	16574412.50	0.2680	0.0399
Mercury	40670-08-02 00:58 G	16575685.47	16575685.54	16575685.61	0.2653	0.1970
Mercury	40683-08-04 17:46 G	16580436.14	16580436.24	16580436.35	0.2652	0.0730
Mercury	40696-08-06 10:48 G	16585186.84	16585186.95	16585187.05	0.2652	0.0519
Mercury	40700-02-03 16:48 G	16586463.12	16586463.20	16586463.29	0.2679	0.2278
Mercury	40709-08-10 03:50 G	16589937.58	16589937.66	16589937.74	0.2651	0.1760
Mercury	40713-02-07 03:07 G	16591214.48	16591214.63	16591214.79	0.2680	0.0998
Venus	40715-11-23 21:07 G	16592234.24	16592234.38	16592234.52	0.2658	0.1150
Mercury	40716-08-03 05:31 G	16592487.65	16592487.73	16592487.81	0.2653	0.1719
Venus	40723-11-21 12:14 G	16595153.95	16595154.01	16595154.06	0.2657	0.2493

Mercury	40729-08-05 22:34 G	16597238.33	16597238.44	16597238.54	0.2652	0.0479
Mercury	40742-08-08 15:22 G	16601989.04	16601989.14	16601989.25	0.2652	0.0770
Mercury	40746-02-05 00:00 G	16603265.37	16603265.50	16603265.63	0.2679	0.1672
Mercury	40755-08-11 08:24 G	16606739.78	16606739.85	16606739.92	0.2651	0.2011
Mercury	40759-02-08 10:19 G	16608016.79	16608016.93	16608017.06	0.2680	0.1587
Mercury	40762-08-04 10:19 G	16609289.84	16609289.93	16609290.02	0.2653	0.1466
Mercury	40775-08-07 03:22 G	16614040.53	16614040.64	16614040.74	0.2652	0.0255
Mercury	40788-08-08 20:10 G	16618791.24	16618791.34	16618791.44	0.2652	0.1017
Mercury	40792-02-06 06:58 G	16620067.64	16620067.79	16620067.95	0.2679	0.1073
Mercury	40795-08-02 22:05 G	16621341.38	16621341.42	16621341.46	0.2653	0.2456
Mercury	40801-08-11 13:12 G	16623541.99	16623542.05	16623542.10	0.2651	0.2255
Mercury	40805-02-08 17:17 G	16624819.13	16624819.22	16624819.32	0.2680	0.2187
Mercury	40808-08-04 15:07 G	16626092.03	16626092.13	16626092.22	0.2653	0.1220
Mercury	40821-08-07 07:55 G	16630842.72	16630842.83	16630842.94	0.2652	0.0045
Mercury	40834-08-10 00:58 G	16635593.45	16635593.54	16635593.63	0.2652	0.1266
Mercury	40838-02-06 14:10 G	16636869.93	16636870.09	16636870.25	0.2679	0.0466
Mercury	40841-08-03 02:53 G	16638143.56	16638143.62	16638143.67	0.2653	0.2209
Mercury	40847-08-12 18:00 G	16640344.21	16640344.25	16640344.28	0.2651	0.2509
Venus	40853-05-23 00:58 G	16642454.38	16642454.54	16642454.69	0.2674	0.0416
Mercury	40854-08-05 19:41 G	16642894.22	16642894.32	16642894.42	0.2653	0.0971
Mercury	40867-08-08 12:43 G	16647644.92	16647645.03	16647645.14	0.2652	0.0276
Mercury	40880-08-10 05:46 G	16652395.65	16652395.74	16652395.82	0.2651	0.1518
Mercury	40884-02-07 21:07 G	16653672.22	16653672.38	16653672.55	0.2680	0.0152
Mercury	40887-08-04 07:26 G	16654945.74	16654945.81	16654945.88	0.2653	0.1959
Mercury	40900-08-07 00:29 G	16659696.42	16659696.52	16659696.62	0.2652	0.0721
Mercury	40913-08-09 17:31 G	16664447.12	16664447.23	16664447.33	0.2652	0.0530
Mercury	40917-02-05 18:00 G	16665723.20	16665723.25	16665723.30	0.2679	0.2541
Mercury	40926-08-12 10:19 G	16669197.85	16669197.93	16669198.01	0.2651	0.1763
Mercury	40930-02-09 04:19 G	16670474.52	16670474.68	16670474.84	0.2680	0.0724
Mercury	40933-08-05 12:14 G	16671747.93	16671748.01	16671748.09	0.2653	0.1710

Mercury	40946-08-08 05:02 G	16676498.61	16676498.71	16676498.82	0.2652	0.0483
Venus	40958-11-24 22:05 G	16680990.27	16680990.42	16680990.56	0.2658	0.1066
Mercury	40959-08-10 22:05 G	16681249.32	16681249.42	16681249.52	0.2652	0.0772
Mercury	40963-02-07 00:58 G	16682525.43	16682525.54	16682525.65	0.2679	0.1949
Venus	40966-11-22 13:26 G	16683910.01	16683910.06	16683910.10	0.2657	0.2538
Mercury	40972-08-12 15:07 G	16686000.06	16686000.13	16686000.20	0.2651	0.2009
Mercury	40976-02-10 11:17 G	16687276.83	16687276.97	16687277.12	0.2680	0.1325
Mercury	40979-08-06 16:48 G	16688550.12	16688550.20	16688550.29	0.2653	0.1467
Mercury	40992-08-08 09:50 G	16693300.80	16693300.91	16693301.02	0.2652	0.0225

42ND MILLENNIUM CE

This is a list of transits visible from Earth in the 42nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	41005-08-12 02:53 G		16698051.52	16698051.62	16698051.72	0.2652	0.1019	
Mercury	41009-02-08 08:10 G		16699327.69	16699327.84	16699327.98	0.2679	0.1344	
Mercury	41012-08-05 04:48 G		16700601.66	16700601.70	16700601.73	0.2653	0.2452	
Mercury	41018-08-14 19:41 G		16702802.27	16702802.32	16702802.38	0.2651	0.2261	
Mercury	41022-02-11 18:29 G		16704079.15	16704079.27	16704079.38	0.2680	0.1914	
Mercury	41025-08-07 21:36 G		16705352.31	16705352.40	16705352.50	0.2653	0.1215	
Mercury	41038-08-10 14:38 G		16710103.00	16710103.11	16710103.22	0.2652	0.0056	
Mercury	41051-08-13 07:26 G		16714853.72	16714853.81	16714853.91	0.2651	0.1267	
Mercury	41055-02-09 15:07 G		16716129.97	16716130.13	16716130.29	0.2679	0.0748	
Mercury	41058-08-06 09:22 G		16717403.83	16717403.89	16717403.95	0.2653	0.2200	

Mercury	41064-08-15 00:29 G	16719604.49	16719604.52	16719604.55	0.2651	0.2505
Mercury	41068-02-13 01:26 G	16720881.51	16720881.56	16720881.62	0.2680	0.2513
Mercury	41071-08-09 02:24 G	16722154.50	16722154.60	16722154.70	0.2653	0.0963
Mercury	41084-08-10 19:12 G	16726905.20	16726905.30	16726905.41	0.2652	0.0292
Venus	41096-05-25 02:10 G	16731210.43	16731210.59	16731210.75	0.2674	0.0342
Mercury	41097-08-13 12:14 G	16731655.92	16731656.01	16731656.10	0.2652	0.1512
Mercury	41101-02-10 22:19 G	16732932.26	16732932.43	16732932.59	0.2680	0.0144
Mercury	41104-08-07 14:10 G	16734206.02	16734206.09	16734206.16	0.2653	0.1951
Mercury	41117-08-10 07:12 G	16738956.69	16738956.80	16738956.90	0.2653	0.0722
Mercury	41130-08-13 00:00 G	16743707.40	16743707.50	16743707.61	0.2652	0.0525
Mercury	41143-08-15 17:02 G	16748458.13	16748458.21	16748458.28	0.2651	0.1765
Mercury	41147-02-12 05:17 G	16749734.56	16749734.72	16749734.89	0.2680	0.0462
Mercury	41150-08-08 18:58 G	16751008.20	16751008.29	16751008.37	0.2653	0.1707
Mercury	41163-08-11 11:46 G	16755758.89	16755758.99	16755759.10	0.2652	0.0467
Mercury	41176-08-13 04:48 G	16760509.59	16760509.70	16760509.80	0.2652	0.0777
Mercury	41180-02-10 02:10 G	16761785.50	16761785.59	16761785.68	0.2679	0.2210
Mercury	41189-08-15 21:36 G	16765260.33	16765260.40	16765260.47	0.2651	0.2014
Mercury	41193-02-12 12:29 G	16766536.87	16766537.02	16766537.17	0.2680	0.1053
Mercury	41196-08-08 23:31 G	16767810.39	16767810.48	16767810.57	0.2653	0.1457
Venus	41201-11-26 23:02 G	16769746.31	16769746.46	16769746.61	0.2657	0.0993
Mercury	41209-08-11 16:34 G	16772561.08	16772561.19	16772561.29	0.2652	0.0228
Venus	41209-11-24 14:10 G	16772666.07	16772666.09	16772666.11	0.2656	0.2624
Mercury	41222-08-14 09:22 G	16777311.79	16777311.89	16777311.99	0.2652	0.1024
Mercury	41226-02-10 09:07 G	16778587.75	16778587.88	16778588.01	0.2679	0.1616
Mercury	41229-08-07 11:17 G	16779861.93	16779861.97	16779862.01	0.2653	0.2442
Mercury	41235-08-17 02:24 G	16782062.55	16782062.60	16782062.65	0.2651	0.2260
Mercury	41239-02-13 19:26 G	16783339.18	16783339.31	16783339.44	0.2680	0.1652
Mercury	41242-08-10 04:19 G	16784612.58	16784612.68	16784612.77	0.2653	0.1209
Mercury	41255-08-12 21:07 G	16789363.28	16789363.38	16789363.49	0.2652	0.0078
Mercury	41268-08-14 14:10 G	16794114.00	16794114.09	16794114.18	0.2652	0.1267

Mercury	41272-02-11 16:19 G	16795390.03	16795390.18	16795390.33	0.2679	0.1014
Mercury	41275-08-08 16:05 G	16796664.11	16796664.17	16796664.23	0.2653	0.2198
Mercury	41281-08-17 07:12 G	16798864.77	16798864.80	16798864.83	0.2651	0.2511
Mercury	41285-02-14 02:38 G	16800141.52	16800141.61	16800141.70	0.2680	0.2239
Mercury	41288-08-10 08:53 G	16801414.77	16801414.87	16801414.97	0.2653	0.0964
Mercury	41301-08-14 01:55 G	16806165.47	16806165.58	16806165.69	0.2652	0.0279
Mercury	41314-08-16 18:58 G	16810916.20	16810916.29	16810916.37	0.2651	0.1521
Mercury	41318-02-12 23:17 G	16812192.31	16812192.47	16812192.63	0.2679	0.0427
Mercury	41321-08-09 20:38 G	16813466.29	16813466.36	16813466.44	0.2653	0.1951
Mercury	41334-08-12 13:41 G	16818216.97	16818217.07	16818217.17	0.2653	0.0714
Venus	41339-05-28 03:36 G	16819966.49	16819966.65	16819966.80	0.2675	0.0286
Mercury	41347-08-15 06:43 G	16822967.67	16822967.78	16822967.88	0.2652	0.0537
Mercury	41360-08-16 23:31 G	16827718.40	16827718.48	16827718.56	0.2651	0.1765
Mercury	41364-02-14 06:29 G	16828994.60	16828994.77	16828994.93	0.2679	0.0191
Mercury	41367-08-11 01:26 G	16830268.48	16830268.56	16830268.64	0.2653	0.1701
Mercury	41380-08-12 18:29 G	16835019.16	16835019.27	16835019.37	0.2653	0.0473
Mercury	41393-08-15 11:17 G	16839769.87	16839769.97	16839770.07	0.2652	0.0775
Mercury	41397-02-11 03:07 G	16841045.57	16841045.63	16841045.69	0.2679	0.2487
Mercury	41406-08-19 04:19 G	16844520.61	16844520.68	16844520.75	0.2651	0.2011
Mercury	41410-02-15 13:26 G	16845796.90	16845797.06	16845797.22	0.2680	0.0776
Mercury	41413-08-12 06:14 G	16847070.67	16847070.76	16847070.85	0.2653	0.1451
Mercury	41426-08-14 23:02 G	16851821.36	16851821.46	16851821.57	0.2652	0.0222
Mercury	41439-08-17 16:05 G	16856572.07	16856572.17	16856572.27	0.2652	0.1022
Mercury	41443-02-13 10:19 G	16857847.81	16857847.93	16857848.04	0.2679	0.1884
Venus	41444-11-29 00:00 G	16858502.35	16858502.50	16858502.65	0.2656	0.0915
Mercury	41446-08-10 18:00 G	16859122.21	16859122.25	16859122.29	0.2653	0.2441
Mercury	41452-08-19 09:07 G	16861322.82	16861322.88	16861322.93	0.2651	0.2262
Mercury	41456-02-16 20:38 G	16862599.22	16862599.36	16862599.50	0.2680	0.1375
Mercury	41459-08-13 10:48 G	16863872.86	16863872.95	16863873.05	0.2653	0.1206
Mercury	41472-08-15 03:50 G	16868623.55	16868623.66	16868623.77	0.2652	0.0041

Mercury	41485-08-17 20:53 G	16873374.27	16873374.37	16873374.46	0.2652	0.1276
Mercury	41489-02-13 17:17 G	16874650.07	16874650.22	16874650.36	0.2679	0.1296
Mercury	41492-08-10 22:34 G	16875924.39	16875924.44	16875924.50	0.2653	0.2193
Mercury	41498-08-20 13:41 G	16878125.04	16878125.07	16878125.10	0.2651	0.2508
Mercury	41502-02-18 03:36 G	16879401.54	16879401.65	16879401.76	0.2680	0.1970
Mercury	41505-08-14 15:36 G	16880675.05	16880675.15	16880675.25	0.2653	0.0957
Mercury	41518-08-17 08:38 G	16885425.75	16885425.86	16885425.96	0.2652	0.0297
Mercury	41531-08-20 01:26 G	16890176.48	16890176.56	16890176.65	0.2652	0.1522
Mercury	41535-02-16 00:29 G	16891452.36	16891452.52	16891452.68	0.2679	0.0693
Mercury	41538-08-13 03:22 G	16892726.57	16892726.64	16892726.71	0.2653	0.1946
Mercury	41548-02-19 10:48 G	16896203.90	16896203.95	16896203.99	0.2680	0.2559
Mercury	41551-08-15 20:24 G	16897477.24	16897477.35	16897477.45	0.2653	0.0717
Mercury	41564-08-17 13:12 G	16902227.95	16902228.05	16902228.16	0.2652	0.0532
Mercury	41577-08-20 06:14 G	16906978.68	16906978.76	16906978.84	0.2651	0.1766
Mercury	41581-02-16 07:26 G	16908254.65	16908254.81	16908254.98	0.2679	0.0100
Venus	41582-05-30 04:34 G	16908722.54	16908722.69	16908722.85	0.2676	0.0216
Mercury	41584-08-13 08:10 G	16909528.76	16909528.84	16909528.92	0.2653	0.1698
Mercury	41597-08-16 00:58 G	16914279.44	16914279.54	16914279.65	0.2652	0.0464
Mercury	41610-08-18 18:00 G	16919030.15	16919030.25	16919030.35	0.2652	0.0776
Mercury	41623-08-21 10:48 G	16923780.89	16923780.95	16923781.02	0.2651	0.2014
Mercury	41627-02-17 14:38 G	16925056.94	16925057.11	16925057.27	0.2679	0.0502
Mercury	41630-08-14 12:43 G	16926330.94	16926331.03	16926331.12	0.2653	0.1451
Mercury	41643-08-17 05:46 G	16931081.63	16931081.74	16931081.85	0.2652	0.0213
Mercury	41656-08-18 22:48 G	16935832.35	16935832.45	16935832.54	0.2652	0.1029
Mercury	41660-02-15 11:02 G	16937107.87	16937107.96	16937108.06	0.2679	0.2176
Mercury	41663-08-13 00:29 G	16938382.48	16938382.52	16938382.56	0.2654	0.2435
Mercury	41669-08-21 15:36 G	16940583.10	16940583.15	16940583.20	0.2651	0.2258
Mercury	41673-02-17 21:36 G	16941859.25	16941859.40	16941859.55	0.2680	0.1086
Mercury	41676-08-14 17:31 G	16943133.13	16943133.23	16943133.32	0.2653	0.1200
Venus	41687-12-01 01:26 G	16947258.41	16947258.56	16947258.71	0.2655	0.0878

Mercury	41689-08-17 10:34 G	16947883.83	16947883.94	16947884.04	0.2652	0.0096
Mercury	41702-08-21 03:22 G	16952634.55	16952634.64	16952634.74	0.2652	0.1272
Mercury	41706-02-16 18:29 G	16953910.13	16953910.27	16953910.40	0.2679	0.1566
Mercury	41709-08-14 05:17 G	16955184.66	16955184.72	16955184.78	0.2653	0.2188
Mercury	41715-08-23 20:24 G	16957385.31	16957385.35	16957385.38	0.2651	0.2505
Mercury	41719-02-20 04:48 G	16958661.57	16958661.70	16958661.82	0.2680	0.1688
Mercury	41722-08-16 22:19 G	16959935.33	16959935.43	16959935.53	0.2653	0.0958
Mercury	41735-08-19 15:07 G	16964686.03	16964686.13	16964686.24	0.2652	0.0290
Mercury	41748-08-21 08:10 G	16969436.75	16969436.84	16969436.92	0.2652	0.1517
Mercury	41752-02-18 01:26 G	16970712.41	16970712.56	16970712.72	0.2679	0.0967
Mercury	41755-08-15 10:05 G	16971986.84	16971986.92	16971986.99	0.2653	0.1940
Mercury	41765-02-20 11:46 G	16975463.91	16975463.99	16975464.08	0.2680	0.2287
Mercury	41768-08-17 02:53 G	16976737.52	16976737.62	16976737.73	0.2653	0.0708
Mercury	41781-08-19 19:55 G	16981488.22	16981488.33	16981488.43	0.2652	0.0531
Mercury	41794-08-22 12:43 G	16986238.95	16986239.03	16986239.11	0.2652	0.1764
Mercury	41798-02-18 08:38 G	16987514.69	16987514.86	16987515.02	0.2679	0.0374
Mercury	41801-08-16 14:38 G	16988789.03	16988789.11	16988789.19	0.2653	0.1696
Mercury	41814-08-19 07:41 G	16993539.71	16993539.82	16993539.93	0.2653	0.0456
Venus	41825-06-01 05:46 G	16997478.58	16997478.74	16997478.90	0.2677	0.0126
Mercury	41827-08-22 00:29 G	16998290.42	16998290.52	16998290.63	0.2652	0.0786
Mercury	41840-08-23 17:31 G	17003041.16	17003041.23	17003041.30	0.2651	0.2010
Mercury	41844-02-20 15:36 G	17004316.98	17004317.15	17004317.31	0.2679	0.0216
Mercury	41847-08-17 19:26 G	17005591.22	17005591.31	17005591.40	0.2653	0.1444
Mercury	41860-08-19 12:29 G	17010341.91	17010342.02	17010342.12	0.2652	0.0236
Mercury	41873-08-22 05:17 G	17015092.62	17015092.72	17015092.82	0.2652	0.1022
Mercury	41877-02-17 12:14 G	17016367.95	17016368.01	17016368.08	0.2679	0.2442
Mercury	41880-08-15 07:12 G	17017642.76	17017642.80	17017642.84	0.2654	0.2434
Mercury	41886-08-24 22:19 G	17019843.37	17019843.43	17019843.48	0.2651	0.2258
Mercury	41890-02-20 22:48 G	17021119.29	17021119.45	17021119.60	0.2679	0.0821
Mercury	41893-08-18 00:14 G	17022393.41	17022393.51	17022393.60	0.2653	0.1205

Mercury	41906-08-21 17:02 G	17027144.10	17027144.21	17027144.32	0.2652	0.0042
Mercury	41919-08-24 10:05 G	17031894.82	17031894.92	17031895.01	0.2652	0.1271
Mercury	41923-02-19 19:12 G	17033170.19	17033170.30	17033170.42	0.2679	0.1853
Mercury	41926-08-17 12:00 G	17034444.94	17034445.00	17034445.06	0.2654	0.2186
Venus	41930-12-04 02:24 G	17036014.45	17036014.60	17036014.75	0.2655	0.0797
Mercury	41932-08-26 02:53 G	17036645.59	17036645.62	17036645.66	0.2651	0.2502
Mercury	41936-02-23 05:46 G	17037921.60	17037921.74	17037921.88	0.2679	0.1409
Mercury	41939-08-20 04:48 G	17039195.60	17039195.70	17039195.80	0.2653	0.0954
Mercury	41952-08-21 21:50 G	17043946.30	17043946.41	17043946.51	0.2652	0.0288
Mercury	41965-08-24 14:38 G	17048697.02	17048697.11	17048697.20	0.2652	0.1514
Mercury	41969-02-20 02:24 G	17049972.46	17049972.60	17049972.75	0.2679	0.1257
Mercury	41972-08-17 16:34 G	17051247.12	17051247.19	17051247.26	0.2654	0.1940
Mercury	41982-02-23 12:43 G	17054723.92	17054724.03	17054724.14	0.2679	0.1997
Mercury	41985-08-20 09:36 G	17055997.80	17055997.90	17055998.00	0.2653	0.0705
Mercury	41998-08-23 02:24 G	17060748.50	17060748.60	17060748.71	0.2652	0.0533

43RD MILLENNIUM CE

This is a list of transits visible from Earth in the 43rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	42011-08-25 19:26 G		17065499.23	17065499.31	17065499.39	0.2652	0.1759	
Mercury	42015-02-21 09:22 G		17066774.73	17066774.89	17066775.05	0.2679	0.0668	
Mercury	42018-08-18 21:22 G		17068049.31	17068049.39	17068049.47	0.2653	0.1689	
Mercury	42028-02-24 19:55 G		17071526.29	17071526.33	17071526.37	0.2680	0.2586	

Mercury	42031-08-21 14:10 G	17072799.99	17072800.09	17072800.20	0.2653	0.0470
Mercury	42044-08-23 07:12 G	17077550.70	17077550.80	17077550.90	0.2652	0.0773
Mercury	42057-08-26 00:14 G	17082301.44	17082301.51	17082301.58	0.2652	0.2009
Mercury	42061-02-21 16:34 G	17083577.03	17083577.19	17083577.36	0.2679	0.0086
Mercury	42064-08-19 02:10 G	17084851.50	17084851.59	17084851.67	0.2653	0.1450
Venus	42068-06-02 06:58 G	17086234.63	17086234.79	17086234.95	0.2677	0.0042
Mercury	42077-08-21 18:58 G	17089602.18	17089602.29	17089602.40	0.2653	0.0212
Mercury	42090-08-24 12:00 G	17094352.90	17094353.00	17094353.09	0.2652	0.1025
Mercury	42097-08-17 13:55 G	17096903.04	17096903.08	17096903.12	0.2654	0.2432
Mercury	42103-08-28 04:48 G	17099103.65	17099103.70	17099103.76	0.2652	0.2252
Mercury	42107-02-23 23:46 G	17100379.33	17100379.49	17100379.65	0.2679	0.0537
Mercury	42110-08-21 06:43 G	17101653.69	17101653.78	17101653.88	0.2653	0.1199
Mercury	42123-08-23 23:46 G	17106404.38	17106404.49	17106404.59	0.2652	0.0087
Mercury	42136-08-25 16:34 G	17111155.10	17111155.19	17111155.29	0.2652	0.1268
Mercury	42140-02-21 20:24 G	17112430.25	17112430.35	17112430.45	0.2679	0.2130
Mercury	42143-08-19 18:29 G	17113705.21	17113705.27	17113705.33	0.2654	0.2186
Mercury	42149-08-28 09:36 G	17115905.87	17115905.90	17115905.93	0.2651	0.2499
Mercury	42153-02-24 06:43 G	17117181.63	17117181.78	17117181.93	0.2679	0.1127
Mercury	42156-08-21 11:31 G	17118455.88	17118455.98	17118456.08	0.2653	0.0956
Mercury	42169-08-24 04:19 G	17123206.58	17123206.68	17123206.79	0.2652	0.0290
Venus	42173-12-05 03:50 G	17124770.51	17124770.66	17124770.81	0.2654	0.0778
Mercury	42182-08-26 21:22 G	17127957.30	17127957.39	17127957.48	0.2652	0.1512
Mercury	42186-02-22 03:22 G	17129232.51	17129232.64	17129232.78	0.2679	0.1537
Mercury	42189-08-19 23:17 G	17130507.40	17130507.47	17130507.54	0.2654	0.1941
Mercury	42199-02-25 13:55 G	17133983.95	17133984.08	17133984.20	0.2679	0.1715
Mercury	42202-08-23 16:05 G	17135258.07	17135258.17	17135258.28	0.2653	0.0710
Mercury	42215-08-26 09:07 G	17140008.77	17140008.88	17140008.98	0.2652	0.0523
Mercury	42228-08-28 02:10 G	17144759.51	17144759.59	17144759.67	0.2652	0.1760
Mercury	42232-02-24 10:34 G	17146034.79	17146034.94	17146035.10	0.2679	0.0941
Mercury	42235-08-22 03:50 G	17147309.58	17147309.66	17147309.75	0.2654	0.1698

Mercury	42245-02-26 20:53 G	17150786.29	17150786.37	17150786.46	0.2679	0.2309
Mercury	42248-08-23 20:53 G	17152060.26	17152060.37	17152060.47	0.2653	0.0465
Mercury	42261-08-26 13:55 G	17156810.97	17156811.08	17156811.18	0.2652	0.0778
Mercury	42274-08-29 06:43 G	17161561.71	17161561.78	17161561.85	0.2652	0.2000
Mercury	42278-02-24 17:31 G	17162837.07	17162837.23	17162837.40	0.2679	0.0355
Mercury	42281-08-22 08:38 G	17164111.77	17164111.86	17164111.95	0.2654	0.1447
Mercury	42294-08-25 01:41 G	17168862.46	17168862.57	17168862.67	0.2653	0.0231
Mercury	42307-08-28 18:29 G	17173613.17	17173613.27	17173613.37	0.2652	0.1015
Venus	42311-06-06 07:41 G	17174990.67	17174990.82	17174990.98	0.2678	0.0096
Mercury	42314-08-21 20:24 G	17176163.31	17176163.35	17176163.39	0.2654	0.2432
Mercury	42320-08-30 11:31 G	17178363.92	17178363.98	17178364.03	0.2652	0.2247
Mercury	42324-02-27 00:43 G	17179639.37	17179639.53	17179639.70	0.2679	0.0242
Mercury	42327-08-24 13:26 G	17180913.96	17180914.06	17180914.15	0.2653	0.1203
Mercury	42340-08-26 06:14 G	17185664.66	17185664.76	17185664.87	0.2653	0.0088
Mercury	42353-08-28 23:17 G	17190415.38	17190415.47	17190415.56	0.2652	0.1263
Mercury	42357-02-23 21:22 G	17191690.32	17191690.39	17191690.46	0.2678	0.2410
Mercury	42360-08-22 01:12 G	17192965.49	17192965.55	17192965.61	0.2654	0.2189
Mercury	42366-08-31 16:05 G	17195166.14	17195166.17	17195166.21	0.2651	0.2491
Mercury	42370-02-27 07:55 G	17196441.67	17196441.83	17196441.98	0.2679	0.0840
Mercury	42373-08-24 18:00 G	17197716.15	17197716.25	17197716.35	0.2653	0.0956
Mercury	42386-08-27 11:02 G	17202466.85	17202466.96	17202467.07	0.2653	0.0277
Mercury	42399-08-30 04:05 G	17207217.58	17207217.67	17207217.75	0.2652	0.1512
Mercury	42403-02-25 04:34 G	17208492.57	17208492.69	17208492.81	0.2678	0.1813
Mercury	42406-08-23 05:46 G	17209767.67	17209767.74	17209767.81	0.2654	0.1943
Mercury	42416-02-28 14:53 G	17213243.98	17213244.12	17213244.26	0.2679	0.1435
Venus	42416-12-07 05:02 G	17213526.55	17213526.71	17213526.86	0.2653	0.0712
Mercury	42419-08-25 22:48 G	17214518.35	17214518.45	17214518.55	0.2653	0.0711
Mercury	42432-08-27 15:50 G	17219269.05	17219269.16	17219269.26	0.2653	0.0531
Mercury	42445-08-30 08:38 G	17224019.78	17224019.86	17224019.94	0.2652	0.1754
Mercury	42449-02-25 11:31 G	17225294.84	17225294.98	17225295.13	0.2678	0.1225

Mercury	42452-08-23 10:34 G	17226569.86	17226569.94	17226570.02	0.2654	0.1695
Mercury	42462-02-28 22:05 G	17230046.31	17230046.42	17230046.52	0.2679	0.2025
Mercury	42465-08-26 03:36 G	17231320.54	17231320.65	17231320.75	0.2653	0.0469
Mercury	42478-08-28 20:24 G	17236071.25	17236071.35	17236071.45	0.2652	0.0767
Mercury	42491-08-31 13:26 G	17240821.99	17240822.06	17240822.13	0.2652	0.1997
Mercury	42495-02-26 18:43 G	17242097.12	17242097.28	17242097.44	0.2679	0.0633
Mercury	42498-08-24 15:22 G	17243372.05	17243372.14	17243372.23	0.2654	0.1453
Mercury	42508-03-02 05:02 G	17246848.68	17246848.71	17246848.74	0.2679	0.2608
Mercury	42511-08-28 08:10 G	17248122.74	17248122.84	17248122.95	0.2653	0.0229
Mercury	42524-08-30 01:12 G	17252873.45	17252873.55	17252873.65	0.2652	0.1015
Mercury	42531-08-24 03:07 G	17255423.59	17255423.63	17255423.67	0.2654	0.2439
Mercury	42537-09-01 18:00 G	17257624.20	17257624.25	17257624.31	0.2652	0.2240
Mercury	42541-02-28 01:41 G	17258899.41	17258899.57	17258899.74	0.2679	0.0050
Mercury	42544-08-25 19:55 G	17260174.24	17260174.33	17260174.43	0.2654	0.1207
Venus	42554-06-07 08:53 G	17263746.71	17263746.87	17263747.02	0.2679	0.0169
Mercury	42557-08-28 12:58 G	17264924.93	17264925.04	17264925.15	0.2653	0.0039
Mercury	42570-08-31 05:46 G	17269675.65	17269675.74	17269675.84	0.2652	0.1258
Mercury	42577-08-24 07:41 G	17272225.76	17272225.82	17272225.88	0.2654	0.2190
Mercury	42583-09-02 22:48 G	17274426.42	17274426.45	17274426.48	0.2652	0.2484
Mercury	42587-03-01 08:53 G	17275701.70	17275701.87	17275702.03	0.2679	0.0547
Mercury	42590-08-27 00:43 G	17276976.43	17276976.53	17276976.63	0.2654	0.0960
Mercury	42603-08-30 17:31 G	17281727.13	17281727.23	17281727.34	0.2653	0.0294
Mercury	42616-09-01 10:34 G	17286477.85	17286477.94	17286478.03	0.2652	0.1500
Mercury	42620-02-28 05:31 G	17287752.63	17287752.73	17287752.83	0.2678	0.2109
Mercury	42623-08-26 12:29 G	17289027.95	17289028.02	17289028.09	0.2654	0.1941
Mercury	42633-03-02 15:50 G	17292504.01	17292504.16	17292504.31	0.2679	0.1138
Mercury	42636-08-28 05:31 G	17293778.62	17293778.73	17293778.83	0.2653	0.0716
Mercury	42649-08-30 22:19 G	17298529.33	17298529.43	17298529.54	0.2653	0.0517
Venus	42659-12-10 06:29 G	17302282.62	17302282.77	17302282.92	0.2653	0.0696
Mercury	42662-09-02 15:22 G	17303280.06	17303280.14	17303280.22	0.2652	0.1743

Mercury	42666-02-28	12:43	G	17304554.89	17304555.03	17304555.16	0.2678	0.1510
Mercury	42669-08-26	17:17	G	17305830.14	17305830.22	17305830.30	0.2654	0.1699
Mercury	42679-03-03	23:02	G	17309306.33	17309306.46	17309306.58	0.2679	0.1727
Mercury	42682-08-29	10:05	G	17310580.82	17310580.92	17310581.03	0.2653	0.0469
Mercury	42695-09-01	03:07	G	17315331.52	17315331.63	17315331.73	0.2653	0.0766
Mercury	42708-09-03	19:55	G	17320082.26	17320082.33	17320082.40	0.2652	0.1990
Mercury	42712-03-01	19:41	G	17321357.16	17321357.32	17321357.47	0.2678	0.0922
Mercury	42715-08-28	21:50	G	17322632.32	17322632.41	17322632.50	0.2654	0.1454
Mercury	42725-03-05	06:00	G	17326108.67	17326108.75	17326108.83	0.2679	0.2324
Mercury	42728-08-30	14:53	G	17327383.01	17327383.12	17327383.22	0.2653	0.0226
Mercury	42741-09-02	07:41	G	17332133.72	17332133.82	17332133.92	0.2652	0.1009
Mercury	42748-08-26	09:36	G	17334683.86	17334683.90	17334683.94	0.2654	0.2439
Mercury	42754-09-05	00:43	G	17336884.47	17336884.53	17336884.59	0.2652	0.2234
Mercury	42758-03-03	02:53	G	17338159.45	17338159.62	17338159.78	0.2678	0.0337
Mercury	42761-08-29	02:38	G	17339434.51	17339434.61	17339434.70	0.2654	0.1208
Mercury	42774-08-31	19:26	G	17344185.21	17344185.31	17344185.42	0.2653	0.0089
Mercury	42787-09-03	12:29	G	17348935.93	17348936.02	17348936.11	0.2652	0.1250
Mercury	42794-08-27	14:24	G	17351486.04	17351486.10	17351486.16	0.2654	0.2191
Venus	42797-06-09	09:36	G	17352502.74	17352502.90	17352503.06	0.2679	0.0267
Mercury	42800-09-05	05:31	G	17353686.69	17353686.73	17353686.76	0.2652	0.2477
Mercury	42804-03-03	09:50	G	17354961.75	17354961.91	17354962.08	0.2679	0.0262
Mercury	42807-08-30	07:12	G	17356236.71	17356236.80	17356236.90	0.2654	0.0968
Mercury	42820-09-01	00:14	G	17360987.40	17360987.51	17360987.62	0.2653	0.0266
Mercury	42833-09-03	17:17	G	17365738.13	17365738.22	17365738.30	0.2652	0.1493
Mercury	42837-03-01	06:29	G	17367012.70	17367012.77	17367012.84	0.2678	0.2391
Mercury	42840-08-27	19:12	G	17368288.22	17368288.30	17368288.37	0.2654	0.1952
Mercury	42850-03-04	17:02	G	17371764.05	17371764.21	17371764.36	0.2679	0.0851
Mercury	42853-08-30	12:00	G	17373038.90	17373039.00	17373039.10	0.2653	0.0718
Mercury	42866-09-02	05:02	G	17377789.60	17377789.71	17377789.81	0.2653	0.0517
Mercury	42879-09-04	21:50	G	17382540.33	17382540.41	17382540.49	0.2652	0.1739

Mercury	42883-03-02 13:26 G	17383814.94	17383815.06	17383815.19	0.2678	0.1810
Mercury	42886-08-28 23:46 G	17385090.41	17385090.49	17385090.57	0.2654	0.1702
Mercury	42896-03-05 00:00 G	17388566.36	17388566.50	17388566.64	0.2679	0.1435
Mercury	42899-08-31 16:48 G	17389841.09	17389841.20	17389841.30	0.2653	0.0481
Venus	42902-12-12 07:41 G	17391038.67	17391038.82	17391038.98	0.2652	0.0657
Mercury	42912-09-03 09:36 G	17394591.80	17394591.90	17394592.01	0.2653	0.0757
Mercury	42925-09-06 02:38 G	17399342.54	17399342.61	17399342.68	0.2652	0.1980
Mercury	42929-03-03 20:38 G	17400617.22	17400617.36	17400617.51	0.2678	0.1210
Mercury	42932-08-30 04:34 G	17401892.60	17401892.69	17401892.78	0.2654	0.1458
Mercury	42942-03-07 06:58 G	17405368.69	17405368.79	17405368.90	0.2679	0.2022
Mercury	42945-09-01 21:22 G	17406643.29	17406643.39	17406643.50	0.2653	0.0242
Mercury	42958-09-04 14:24 G	17411394.00	17411394.10	17411394.20	0.2653	0.0998
Mercury	42965-08-28 16:19 G	17413944.14	17413944.18	17413944.22	0.2655	0.2440
Mercury	42971-09-07 07:12 G	17416144.75	17416144.80	17416144.86	0.2652	0.2226
Mercury	42975-03-05 03:50 G	17417419.50	17417419.66	17417419.82	0.2678	0.0619
Mercury	42978-08-31 09:07 G	17418694.79	17418694.88	17418694.98	0.2654	0.1215
Mercury	42988-03-07 14:10 G	17422171.06	17422171.09	17422171.12	0.2679	0.2617
Mercury	42991-09-03 02:10 G	17423445.48	17423445.59	17423445.70	0.2653	0.0019

44TH MILLENNIUM CE

This is a list of transits visible from Earth in the 44th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	43004-09-05 19:12 G		17428196.20	17428196.30	17428196.39	0.2653	0.1245	

Mercury	43011-08-30 20:53 G	17430746.32	17430746.37	17430746.43	0.2654	0.2201
Mercury	43017-09-08 12:00 G	17432946.96	17432947.00	17432947.04	0.2652	0.2465
Mercury	43021-03-06 11:02 G	17434221.79	17434221.96	17434222.12	0.2678	0.0056
Mercury	43024-09-01 13:55 G	17435496.98	17435497.08	17435497.18	0.2654	0.0969
Mercury	43037-09-04 06:58 G	17440247.68	17440247.79	17440247.89	0.2653	0.0268
Venus	43040-06-11 10:19 G	17441258.77	17441258.93	17441259.09	0.2680	0.0374
Mercury	43050-09-06 23:46 G	17444998.40	17444998.49	17444998.58	0.2652	0.1489
Mercury	43054-03-04 07:41 G	17446272.81	17446272.82	17446272.82	0.2678	0.2677
Mercury	43057-08-31 01:41 G	17447548.50	17447548.57	17447548.64	0.2654	0.1953
Mercury	43067-03-07 18:00 G	17451024.09	17451024.25	17451024.41	0.2678	0.0558
Mercury	43070-09-02 18:43 G	17452299.17	17452299.28	17452299.38	0.2654	0.0729
Mercury	43083-09-05 11:31 G	17457049.88	17457049.98	17457050.09	0.2653	0.0512
Mercury	43096-09-07 04:34 G	17461800.61	17461800.69	17461800.77	0.2652	0.1730
Mercury	43100-03-05 14:38 G	17463075.01	17463075.11	17463075.22	0.2678	0.2080
Mercury	43103-09-02 06:29 G	17464350.69	17464350.77	17464350.85	0.2654	0.1713
Mercury	43113-03-09 00:58 G	17467826.40	17467826.54	17467826.69	0.2679	0.1149
Mercury	43116-09-03 23:17 G	17469101.37	17469101.47	17469101.58	0.2654	0.0487
Mercury	43129-09-06 16:19 G	17473852.08	17473852.18	17473852.28	0.2653	0.0747
Mercury	43142-09-09 09:07 G	17478602.81	17478602.88	17478602.95	0.2652	0.1975
Venus	43145-12-14 09:22 G	17479794.74	17479794.89	17479795.05	0.2651	0.0654
Mercury	43146-03-06 21:50 G	17479877.27	17479877.41	17479877.54	0.2678	0.1499
Mercury	43149-09-02 11:02 G	17481152.87	17481152.96	17481153.05	0.2654	0.1465
Mercury	43159-03-10 08:10 G	17484628.72	17484628.84	17484628.97	0.2679	0.1739
Mercury	43162-09-05 04:05 G	17485903.56	17485903.67	17485903.78	0.2653	0.0236
Mercury	43175-09-07 21:07 G	17490654.28	17490654.38	17490654.47	0.2653	0.0997
Mercury	43182-08-31 22:48 G	17493204.41	17493204.45	17493204.49	0.2655	0.2449
Mercury	43188-09-09 13:55 G	17495405.02	17495405.08	17495405.14	0.2652	0.2213
Mercury	43192-03-07 04:48 G	17496679.55	17496679.70	17496679.86	0.2678	0.0910
Mercury	43195-09-03 15:50 G	17497955.07	17497955.16	17497955.25	0.2654	0.1221
Mercury	43205-03-10 15:07 G	17501431.05	17501431.13	17501431.21	0.2679	0.2319

Mercury	43208-09-05 08:53 G	17502705.76	17502705.87	17502705.97	0.2653	0.0070
Mercury	43221-09-08 01:41 G	17507456.48	17507456.57	17507456.67	0.2653	0.1234
Mercury	43228-09-01 03:36 G	17510006.59	17510006.65	17510006.71	0.2655	0.2203
Mercury	43234-09-10 18:43 G	17512207.24	17512207.28	17512207.31	0.2652	0.2458
Mercury	43238-03-08 11:46 G	17513481.83	17513481.99	17513482.16	0.2678	0.0337
Mercury	43241-09-03 20:38 G	17514757.26	17514757.36	17514757.46	0.2654	0.0975
Mercury	43254-09-06 13:26 G	17519507.96	17519508.06	17519508.17	0.2653	0.0260
Mercury	43267-09-09 06:29 G	17524258.68	17524258.77	17524258.86	0.2653	0.1478
Mercury	43274-09-02 08:24 G	17526808.78	17526808.85	17526808.92	0.2654	0.1960
Venus	43283-06-13 11:17 G	17530014.81	17530014.97	17530015.12	0.2681	0.0481
Mercury	43284-03-08 18:58 G	17530284.13	17530284.29	17530284.46	0.2678	0.0270
Mercury	43287-09-05 01:12 G	17531559.45	17531559.55	17531559.66	0.2654	0.0735
Mercury	43300-09-07 18:14 G	17536310.15	17536310.26	17536310.36	0.2653	0.0499
Mercury	43313-09-10 11:02 G	17541060.88	17541060.96	17541061.04	0.2652	0.1724
Mercury	43317-03-07 15:50 G	17542335.08	17542335.16	17542335.23	0.2678	0.2369
Mercury	43320-09-03 12:58 G	17543610.96	17543611.04	17543611.12	0.2654	0.1714
Mercury	43330-03-11 02:10 G	17547086.43	17547086.59	17547086.75	0.2678	0.0860
Mercury	43333-09-06 06:00 G	17548361.64	17548361.75	17548361.86	0.2654	0.0484
Mercury	43346-09-08 22:48 G	17553112.35	17553112.45	17553112.56	0.2653	0.0750
Mercury	43359-09-11 15:50 G	17557863.09	17557863.16	17557863.23	0.2652	0.1964
Mercury	43363-03-08 22:48 G	17559137.33	17559137.45	17559137.57	0.2678	0.1781
Mercury	43366-09-04 17:46 G	17560413.15	17560413.24	17560413.33	0.2654	0.1471
Mercury	43376-03-11 09:07 G	17563888.75	17563888.88	17563889.02	0.2678	0.1446
Mercury	43379-09-07 10:48 G	17565163.84	17565163.95	17565164.05	0.2654	0.0257
Venus	43388-12-15 11:02 G	17568550.80	17568550.96	17568551.11	0.2650	0.0641
Mercury	43392-09-09 03:36 G	17569914.55	17569914.65	17569914.75	0.2653	0.0985
Mercury	43399-09-03 05:31 G	17572464.69	17572464.73	17572464.77	0.2655	0.2457
Mercury	43405-09-12 20:38 G	17574665.30	17574665.36	17574665.42	0.2652	0.2207
Mercury	43409-03-10 05:46 G	17575939.60	17575939.74	17575939.89	0.2678	0.1204
Mercury	43412-09-05 22:34 G	17577215.34	17577215.44	17577215.53	0.2654	0.1227

Mercury	43422-03-13 16:19 G	17580691.07	17580691.18	17580691.28	0.2679	0.2027
Mercury	43425-09-08 15:22 G	17581966.03	17581966.14	17581966.25	0.2653	0.0036
Mercury	43438-09-11 08:24 G	17586716.75	17586716.85	17586716.94	0.2653	0.1226
Mercury	43445-09-04 10:19 G	17589266.87	17589266.93	17589266.98	0.2655	0.2211
Mercury	43451-09-14 01:12 G	17591467.52	17591467.55	17591467.59	0.2652	0.2450
Mercury	43455-03-11 12:58 G	17592741.88	17592742.04	17592742.20	0.2678	0.0608
Mercury	43458-09-07 03:07 G	17594017.53	17594017.63	17594017.73	0.2654	0.0985
Mercury	43468-03-13 23:17 G	17597493.44	17597493.47	17597493.51	0.2679	0.2614
Mercury	43471-09-09 20:10 G	17598768.23	17598768.34	17598768.44	0.2653	0.0251
Mercury	43484-09-11 12:58 G	17603518.96	17603519.04	17603519.13	0.2653	0.1472
Mercury	43491-09-05 14:53 G	17606069.05	17606069.12	17606069.19	0.2655	0.1965
Mercury	43501-03-12 20:10 G	17609544.17	17609544.34	17609544.50	0.2678	0.0078
Mercury	43504-09-08 07:55 G	17610819.73	17610819.83	17610819.93	0.2654	0.0737
Mercury	43517-09-11 00:43 G	17615570.43	17615570.53	17615570.64	0.2653	0.0499
Venus	43526-06-16 11:46 G	17618770.83	17618770.99	17618771.14	0.2682	0.0602
Mercury	43530-09-13 17:46 G	17620321.16	17620321.24	17620321.32	0.2653	0.1708
Mercury	43534-03-10 16:48 G	17621595.18	17621595.20	17621595.21	0.2677	0.2662
Mercury	43537-09-06 19:41 G	17622871.24	17622871.32	17622871.40	0.2655	0.1720
Mercury	43547-03-14 03:07 G	17626346.47	17626346.63	17626346.79	0.2678	0.0559
Mercury	43550-09-09 12:29 G	17627621.92	17627622.02	17627622.13	0.2654	0.0507
Mercury	43563-09-12 05:31 G	17632372.63	17632372.73	17632372.83	0.2653	0.0734
Mercury	43576-09-13 22:34 G	17637123.37	17637123.44	17637123.51	0.2652	0.1951
Mercury	43580-03-10 23:46 G	17638397.39	17638397.49	17638397.60	0.2677	0.2075
Mercury	43583-09-08 00:14 G	17639673.43	17639673.51	17639673.60	0.2655	0.1480
Mercury	43593-03-14 10:19 G	17643148.78	17643148.93	17643149.07	0.2678	0.1143
Mercury	43596-09-09 17:17 G	17644424.11	17644424.22	17644424.33	0.2654	0.0250
Mercury	43609-09-12 10:19 G	17649174.83	17649174.93	17649175.03	0.2653	0.0973
Mercury	43616-09-05 12:14 G	17651724.97	17651725.01	17651725.04	0.2655	0.2462
Mercury	43622-09-15 03:07 G	17653925.58	17653925.63	17653925.69	0.2652	0.2196
Mercury	43626-03-12 06:58 G	17655199.66	17655199.79	17655199.93	0.2678	0.1479

Mercury	43629-09-08 05:02 G	17656475.62	17656475.71	17656475.81	0.2654	0.1234
Venus	43631-12-18 12:43 G	17657306.87	17657307.03	17657307.18	0.2650	0.0645
Mercury	43639-03-15 17:17 G	17659951.10	17659951.22	17659951.35	0.2678	0.1737
Mercury	43642-09-10 22:05 G	17661226.31	17661226.42	17661226.53	0.2654	0.0036
Mercury	43655-09-13 14:53 G	17665977.03	17665977.12	17665977.22	0.2653	0.1222
Mercury	43662-09-06 16:48 G	17668527.14	17668527.20	17668527.26	0.2655	0.2217
Mercury	43668-09-15 07:55 G	17670727.79	17670727.83	17670727.87	0.2652	0.2435
Mercury	43672-03-12 14:10 G	17672001.93	17672002.09	17672002.24	0.2678	0.0901
Mercury	43675-09-09 09:50 G	17673277.81	17673277.91	17673278.01	0.2654	0.0989
Mercury	43685-03-16 00:29 G	17676753.44	17676753.52	17676753.60	0.2679	0.2325
Mercury	43688-09-11 02:53 G	17678028.51	17678028.62	17678028.72	0.2653	0.0262
Mercury	43701-09-14 19:41 G	17682779.23	17682779.32	17682779.41	0.2653	0.1456
Mercury	43708-09-07 21:36 G	17685329.33	17685329.40	17685329.47	0.2655	0.1974
Mercury	43718-03-14 21:07 G	17688804.22	17688804.38	17688804.55	0.2678	0.0316
Mercury	43721-09-10 14:24 G	17690080.00	17690080.10	17690080.21	0.2654	0.0754
Mercury	43734-09-13 07:26 G	17694830.71	17694830.81	17694830.92	0.2653	0.0481
Mercury	43747-09-16 00:29 G	17699581.44	17699581.52	17699581.60	0.2653	0.1701
Mercury	43754-09-09 02:10 G	17702131.51	17702131.59	17702131.67	0.2655	0.1733
Mercury	43764-03-15 04:05 G	17705606.51	17705606.67	17705606.84	0.2678	0.0273
Mercury	43767-09-11 19:12 G	17706882.20	17706882.30	17706882.41	0.2654	0.0503
Venus	43769-06-17 12:29 G	17707526.87	17707527.02	17707527.18	0.2682	0.0704
Mercury	43780-09-13 12:14 G	17711632.90	17711633.01	17711633.11	0.2653	0.0721
Mercury	43793-09-16 05:02 G	17716383.64	17716383.71	17716383.78	0.2653	0.1941
Mercury	43797-03-13 00:58 G	17717657.46	17717657.54	17717657.62	0.2677	0.2359
Mercury	43800-09-10 06:58 G	17718933.70	17718933.79	17718933.88	0.2655	0.1486
Mercury	43810-03-17 11:17 G	17722408.81	17722408.97	17722409.13	0.2678	0.0852
Mercury	43813-09-13 00:00 G	17723684.39	17723684.50	17723684.60	0.2654	0.0268
Mercury	43826-09-15 16:48 G	17728435.10	17728435.20	17728435.30	0.2653	0.0965
Mercury	43833-09-08 18:43 G	17730985.24	17730985.28	17730985.32	0.2655	0.2468
Mercury	43839-09-18 09:50 G	17733185.85	17733185.91	17733185.97	0.2652	0.2180

Mercury	43843-03-15 07:55 G	17734459.71	17734459.83	17734459.95	0.2677	0.1781
Mercury	43846-09-11 11:46 G	17735735.89	17735735.99	17735736.08	0.2655	0.1243
Mercury	43856-03-17 18:14 G	17739211.13	17739211.26	17739211.40	0.2678	0.1434
Mercury	43859-09-14 04:34 G	17740486.59	17740486.69	17740486.80	0.2654	0.0106
Mercury	43872-09-15 21:36 G	17745237.30	17745237.40	17745237.49	0.2653	0.1201
Venus	43874-12-20 14:24 G	17746062.95	17746063.10	17746063.26	0.2649	0.0650
Mercury	43879-09-09 23:31 G	17747787.42	17747787.48	17747787.53	0.2655	0.2226
Mercury	43885-09-18 14:24 G	17749988.06	17749988.10	17749988.15	0.2652	0.2423
Mercury	43889-03-15 15:07 G	17751261.98	17751262.13	17751262.28	0.2677	0.1195
Mercury	43892-09-11 16:19 G	17752538.09	17752538.18	17752538.28	0.2655	0.1004
Mercury	43902-03-20 01:26 G	17756013.45	17756013.56	17756013.67	0.2678	0.2013
Mercury	43905-09-15 09:22 G	17757288.78	17757288.89	17757289.00	0.2654	0.0227
Mercury	43918-09-18 02:24 G	17762039.51	17762039.60	17762039.68	0.2653	0.1450
Mercury	43925-09-11 04:05 G	17764589.60	17764589.67	17764589.74	0.2655	0.1986
Mercury	43935-03-17 22:05 G	17768064.26	17768064.42	17768064.58	0.2678	0.0614
Mercury	43938-09-13 21:07 G	17769340.28	17769340.38	17769340.48	0.2654	0.0755
Mercury	43948-03-20 08:38 G	17772815.82	17772815.86	17772815.89	0.2678	0.2599
Mercury	43951-09-16 14:10 G	17774090.98	17774091.09	17774091.19	0.2654	0.0475
Mercury	43964-09-18 06:58 G	17778841.71	17778841.79	17778841.87	0.2653	0.1687
Mercury	43971-09-12 08:53 G	17781391.79	17781391.87	17781391.95	0.2655	0.1739
Mercury	43981-03-18 05:17 G	17784866.55	17784866.72	17784866.89	0.2678	0.0024
Mercury	43984-09-14 01:55 G	17786142.47	17786142.58	17786142.68	0.2654	0.0521
Mercury	43997-09-16 18:43 G	17790893.18	17790893.28	17790893.39	0.2654	0.0711

45TH MILLENNIUM CE

This is a list of transits visible from Earth in the 45th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	44010-09-19 11:46	G	17795643.92	17795643.99	17795644.06	0.2653	0.1929	
Venus	44012-06-19 12:58	G	17796282.89	17796283.04	17796283.19	0.2683	0.0856	
Mercury	44014-03-16 01:55	G	17796917.56	17796917.58	17796917.60	0.2677	0.2648	
Mercury	44017-09-12 13:41	G	17798193.98	17798194.07	17798194.15	0.2655	0.1499	
Mercury	44027-03-19 12:14	G	17801668.85	17801669.01	17801669.18	0.2678	0.0559	
Mercury	44030-09-15 06:29	G	17802944.67	17802944.77	17802944.88	0.2654	0.0279	
Mercury	44043-09-17 23:31	G	17807695.38	17807695.48	17807695.58	0.2653	0.0949	
Mercury	44050-09-11 01:12	G	17810245.52	17810245.55	17810245.59	0.2656	0.2484	
Mercury	44056-09-19 16:34	G	17812446.13	17812446.19	17812446.25	0.2653	0.2168	
Mercury	44060-03-16 09:07	G	17813719.78	17813719.88	17813719.98	0.2677	0.2068	
Mercury	44063-09-13 18:14	G	17814996.17	17814996.26	17814996.36	0.2655	0.1257	
Mercury	44073-03-19 19:26	G	17818471.16	17818471.31	17818471.46	0.2678	0.1136	
Mercury	44076-09-15 11:17	G	17819746.86	17819746.97	17819747.08	0.2654	0.0038	
Mercury	44089-09-18 04:19	G	17824497.58	17824497.68	17824497.77	0.2653	0.1197	
Mercury	44096-09-11 06:00	G	17827047.70	17827047.75	17827047.81	0.2656	0.2239	
Mercury	44102-09-21 21:07	G	17829248.34	17829248.38	17829248.42	0.2652	0.2408	
Mercury	44106-03-18 16:05	G	17830522.03	17830522.17	17830522.31	0.2677	0.1492	
Mercury	44109-09-14 23:02	G	17831798.36	17831798.46	17831798.56	0.2655	0.1012	
Venus	44117-12-22 16:05	G	17834819.02	17834819.17	17834819.33	0.2649	0.0659	
Mercury	44119-03-22 02:24	G	17835273.48	17835273.60	17835273.73	0.2678	0.1715	
Mercury	44122-09-17 16:05	G	17836549.06	17836549.17	17836549.27	0.2654	0.0241	
Mercury	44135-09-20 08:53	G	17841299.78	17841299.87	17841299.96	0.2653	0.1430	
Mercury	44142-09-13 10:48	G	17843849.88	17843849.95	17843850.02	0.2655	0.1993	
Mercury	44148-09-22 01:55	G	17846050.58	17846050.58	17846050.58	0.2652	0.2648	
Mercury	44152-03-18 23:17	G	17847324.31	17847324.47	17847324.62	0.2677	0.0911	
Mercury	44155-09-16 03:50	G	17848600.55	17848600.66	17848600.76	0.2655	0.0777	

Mercury	44165-03-22 09:36 G	17852075.81	17852075.90	17852075.98	0.2678	0.2294
Mercury	44168-09-17 20:38 G	17853351.26	17853351.36	17853351.47	0.2654	0.0454
Mercury	44181-09-20 13:41 G	17858101.99	17858102.07	17858102.15	0.2653	0.1673
Mercury	44188-09-13 15:36 G	17860652.07	17860652.15	17860652.23	0.2655	0.1751
Mercury	44198-03-20 06:14 G	17864126.60	17864126.76	17864126.93	0.2677	0.0330
Mercury	44201-09-17 08:24 G	17865402.75	17865402.85	17865402.96	0.2655	0.0526
Mercury	44214-09-20 01:26 G	17870153.46	17870153.56	17870153.66	0.2654	0.0697
Mercury	44227-09-22 18:29 G	17874904.19	17874904.27	17874904.34	0.2653	0.1913
Mercury	44234-09-15 20:10 G	17877454.25	17877454.34	17877454.43	0.2655	0.1509
Mercury	44244-03-21 13:26 G	17880928.89	17880929.06	17880929.22	0.2678	0.0256
Mercury	44247-09-18 13:12 G	17882204.94	17882205.05	17882205.16	0.2654	0.0285
Venus	44255-06-22 13:26 G	17885038.92	17885039.06	17885039.21	0.2684	0.0963
Mercury	44260-09-20 06:14 G	17886955.66	17886955.76	17886955.86	0.2654	0.0943
Mercury	44267-09-14 07:55 G	17889505.80	17889505.83	17889505.86	0.2656	0.2494
Mercury	44273-09-22 23:02 G	17891706.40	17891706.46	17891706.52	0.2653	0.2154
Mercury	44277-03-19 10:05 G	17892979.85	17892979.92	17892980.00	0.2677	0.2359
Mercury	44280-09-16 00:58 G	17894256.44	17894256.54	17894256.63	0.2655	0.1268
Mercury	44290-03-22 20:24 G	17897731.20	17897731.35	17897731.51	0.2678	0.0838
Mercury	44293-09-18 18:00 G	17899007.14	17899007.25	17899007.35	0.2654	0.0120
Mercury	44306-09-22 10:48 G	17903757.86	17903757.95	17903758.05	0.2653	0.1179
Mercury	44313-09-15 12:43 G	17906307.97	17906308.03	17906308.08	0.2656	0.2251
Mercury	44319-09-25 03:50 G	17908508.61	17908508.66	17908508.70	0.2653	0.2393
Mercury	44323-03-21 17:17 G	17909782.10	17909782.22	17909782.34	0.2677	0.1777
Mercury	44326-09-18 05:31 G	17911058.63	17911058.73	17911058.83	0.2655	0.1027
Mercury	44336-03-24 03:36 G	17914533.51	17914533.65	17914533.79	0.2678	0.1416
Mercury	44339-09-20 22:34 G	17915809.34	17915809.44	17915809.55	0.2654	0.0203
Mercury	44352-09-22 15:36 G	17920560.06	17920560.15	17920560.24	0.2653	0.1417
Mercury	44359-09-16 17:17 G	17923110.15	17923110.22	17923110.29	0.2656	0.2007
Venus	44360-12-24 18:00 G	17923575.10	17923575.25	17923575.41	0.2648	0.0678
Mercury	44365-09-25 08:24 G	17925310.84	17925310.85	17925310.86	0.2653	0.2631

Mercury	44369-03-22 00:14 G	17926584.36	17926584.51	17926584.66	0.2677	0.1202
Mercury	44372-09-18 10:19 G	17927860.83	17927860.93	17927861.03	0.2655	0.0782
Mercury	44382-03-25 10:34 G	17931335.83	17931335.94	17931336.05	0.2678	0.1998
Mercury	44385-09-21 03:22 G	17932611.53	17932611.64	17932611.74	0.2654	0.0443
Mercury	44398-09-23 20:10 G	17937362.26	17937362.34	17937362.43	0.2653	0.1656
Mercury	44405-09-16 22:05 G	17939912.34	17939912.42	17939912.50	0.2656	0.1765
Mercury	44415-03-23 07:26 G	17943386.65	17943386.81	17943386.97	0.2677	0.0626
Mercury	44418-09-19 15:07 G	17944663.02	17944663.13	17944663.23	0.2655	0.0542
Mercury	44428-03-25 17:46 G	17948138.19	17948138.24	17948138.28	0.2678	0.2572
Mercury	44431-09-22 08:10 G	17949413.73	17949413.84	17949413.94	0.2654	0.0690
Mercury	44444-09-24 00:58 G	17954164.47	17954164.54	17954164.61	0.2653	0.1895
Mercury	44451-09-18 02:53 G	17956714.53	17956714.62	17956714.70	0.2656	0.1524
Mercury	44461-03-23 14:24 G	17960188.93	17960189.10	17960189.26	0.2677	0.0061
Mercury	44464-09-19 19:41 G	17961465.22	17961465.32	17961465.43	0.2655	0.0317
Mercury	44477-09-22 12:43 G	17966215.93	17966216.03	17966216.13	0.2654	0.0919
Mercury	44484-09-15 14:24 G	17968766.07	17968766.10	17968766.14	0.2656	0.2506
Venus	44490-06-25 23:31 G	17970875.45	17970875.48	17970875.50	0.2684	0.2649
Mercury	44490-09-25 05:46 G	17970966.67	17970966.74	17970966.80	0.2653	0.2135
Mercury	44494-03-21 11:17 G	17972239.95	17972239.97	17972239.99	0.2676	0.2647
Mercury	44497-09-18 07:26 G	17973516.72	17973516.81	17973516.91	0.2655	0.1280
Venus	44498-06-23 13:41 G	17973794.93	17973795.07	17973795.22	0.2684	0.1129
Mercury	44507-03-25 21:22 G	17976991.23	17976991.39	17976991.56	0.2677	0.0532
Mercury	44510-09-22 00:29 G	17978267.41	17978267.52	17978267.63	0.2655	0.0062
Mercury	44523-09-24 17:31 G	17983018.13	17983018.23	17983018.32	0.2654	0.1162
Mercury	44530-09-17 19:12 G	17985568.25	17985568.30	17985568.36	0.2656	0.2262
Mercury	44536-09-26 10:19 G	17987768.89	17987768.93	17987768.98	0.2653	0.2374
Mercury	44540-03-22 18:14 G	17989042.16	17989042.26	17989042.37	0.2677	0.2072
Mercury	44543-09-20 12:14 G	17990318.91	17990319.01	17990319.11	0.2655	0.1035
Mercury	44553-03-26 04:34 G	17993793.54	17993793.69	17993793.84	0.2678	0.1113
Mercury	44556-09-22 05:17 G	17995069.61	17995069.72	17995069.82	0.2654	0.0194

Mercury	44569-09-24 22:05 G	17999820.33	17999820.42	17999820.51	0.2654	0.1402
Mercury	44576-09-18 00:00 G	18002370.43	18002370.50	18002370.57	0.2656	0.2021
Mercury	44582-09-27 15:07 G	18004571.11	18004571.13	18004571.14	0.2653	0.2611
Mercury	44586-03-24 01:26 G	18005844.42	18005844.56	18005844.69	0.2677	0.1491
Mercury	44589-09-20 17:02 G	18007121.11	18007121.21	18007121.31	0.2655	0.0799
Mercury	44599-03-27 11:46 G	18010595.86	18010595.99	18010596.11	0.2678	0.1693
Mercury	44602-09-24 09:50 G	18011871.81	18011871.91	18011872.02	0.2654	0.0436
Venus	44603-12-27 19:41 G	18012331.17	18012331.32	18012331.48	0.2647	0.0687
Mercury	44615-09-27 02:53 G	18016622.54	18016622.62	18016622.70	0.2653	0.1641
Mercury	44622-09-20 04:34 G	18019172.62	18019172.69	18019172.77	0.2656	0.1782
Mercury	44632-03-25 08:24 G	18022646.69	18022646.85	18022647.00	0.2677	0.0925
Mercury	44635-09-22 21:36 G	18023923.30	18023923.40	18023923.51	0.2655	0.0559
Mercury	44645-03-28 18:43 G	18027398.20	18027398.28	18027398.37	0.2678	0.2270
Mercury	44648-09-24 14:38 G	18028674.01	18028674.11	18028674.21	0.2654	0.0664
Mercury	44661-09-27 07:41 G	18033424.74	18033424.82	18033424.89	0.2653	0.1880
Mercury	44668-09-20 09:22 G	18035974.81	18035974.89	18035974.98	0.2656	0.1537
Mercury	44678-03-26 15:36 G	18039448.98	18039449.15	18039449.31	0.2677	0.0349
Mercury	44681-09-23 02:24 G	18040725.49	18040725.60	18040725.71	0.2655	0.0317
Mercury	44694-09-25 19:12 G	18045476.20	18045476.30	18045476.41	0.2654	0.0910
Mercury	44701-09-19 21:07 G	18048026.35	18048026.38	18048026.41	0.2656	0.2521
Mercury	44707-09-29 12:14 G	18050226.95	18050227.01	18050227.08	0.2653	0.2119
Mercury	44714-09-22 14:10 G	18052777.00	18052777.09	18052777.18	0.2656	0.1293
Mercury	44724-03-27 22:34 G	18056251.28	18056251.44	18056251.61	0.2677	0.0233
Mercury	44727-09-25 07:12 G	18057527.69	18057527.80	18057527.90	0.2655	0.0134
Venus	44733-06-28 23:46 G	18059631.44	18059631.49	18059631.55	0.2684	0.2524
Mercury	44740-09-27 00:00 G	18062278.41	18062278.50	18062278.60	0.2654	0.1144
Venus	44741-06-26 14:10 G	18062550.95	18062551.09	18062551.23	0.2685	0.1248
Mercury	44747-09-21 01:55 G	18064828.52	18064828.58	18064828.63	0.2656	0.2276
Mercury	44753-09-29 17:02 G	18067029.16	18067029.21	18067029.26	0.2653	0.2354
Mercury	44757-03-25 19:26 G	18068302.23	18068302.31	18068302.38	0.2676	0.2369

Mercury	44760-09-22 18:43 G	18069579.19	18069579.28	18069579.38	0.2655	0.1061
Mercury	44770-03-29 05:31 G	18073053.58	18073053.73	18073053.89	0.2677	0.0810
Mercury	44773-09-25 11:46 G	18074329.88	18074329.99	18074330.10	0.2655	0.0174
Mercury	44786-09-28 04:48 G	18079080.61	18079080.70	18079080.79	0.2654	0.1383
Mercury	44793-09-21 06:29 G	18081630.71	18081630.77	18081630.84	0.2656	0.2037
Mercury	44799-09-30 21:50 G	18083831.39	18083831.41	18083831.42	0.2653	0.2596
Mercury	44803-03-27 02:24 G	18085104.48	18085104.60	18085104.72	0.2676	0.1799
Mercury	44806-09-23 23:31 G	18086381.38	18086381.48	18086381.58	0.2655	0.0810
Mercury	44816-03-29 12:43 G	18089855.89	18089856.03	18089856.17	0.2677	0.1380
Mercury	44819-09-26 16:34 G	18091132.08	18091132.19	18091132.29	0.2655	0.0410
Mercury	44832-09-28 09:36 G	18095882.81	18095882.90	18095882.98	0.2654	0.1625
Mercury	44839-09-22 11:17 G	18098432.89	18098432.97	18098433.05	0.2656	0.1792
Venus	44846-12-28 21:50 G	18101087.26	18101087.41	18101087.56	0.2647	0.0733
Mercury	44849-03-27 09:36 G	18101906.75	18101906.90	18101907.05	0.2676	0.1211
Mercury	44852-09-24 04:19 G	18103183.57	18103183.68	18103183.78	0.2655	0.0573
Mercury	44862-03-30 19:41 G	18106658.21	18106658.32	18106658.44	0.2677	0.1959
Mercury	44865-09-26 21:22 G	18107934.28	18107934.39	18107934.49	0.2654	0.0659
Mercury	44878-09-29 14:10 G	18112685.02	18112685.09	18112685.17	0.2654	0.1864
Mercury	44885-09-22 16:05 G	18115235.08	18115235.17	18115235.25	0.2656	0.1552
Mercury	44895-03-28 16:34 G	18118709.03	18118709.19	18118709.35	0.2677	0.0640
Mercury	44898-09-25 08:53 G	18119985.77	18119985.87	18119985.98	0.2655	0.0344
Mercury	44908-04-01 02:53 G	18123460.57	18123460.62	18123460.67	0.2678	0.2545
Mercury	44911-09-29 01:55 G	18124736.48	18124736.58	18124736.68	0.2654	0.0891
Mercury	44918-09-22 03:36 G	18127286.63	18127286.65	18127286.68	0.2657	0.2536
Mercury	44924-09-30 18:58 G	18129487.23	18129487.29	18129487.35	0.2653	0.2101
Mercury	44931-09-24 20:38 G	18132037.27	18132037.36	18132037.46	0.2656	0.1313
Mercury	44941-03-29 23:46 G	18135511.32	18135511.49	18135511.65	0.2677	0.0074
Mercury	44944-09-26 13:41 G	18136787.96	18136788.07	18136788.18	0.2655	0.0093
Mercury	44957-09-29 06:43 G	18141538.68	18141538.78	18141538.88	0.2654	0.1129
Mercury	44964-09-22 08:24 G	18144088.80	18144088.85	18144088.90	0.2657	0.2296

Mercury	44970-10-01 23:46 G	18146289.44	18146289.49	18146289.53	0.2653	0.2341
Mercury	44974-03-27 20:24 G	18147562.34	18147562.35	18147562.37	0.2676	0.2657
Venus	44976-06-30 00:14 G	18148387.44	18148387.51	18148387.58	0.2685	0.2377
Mercury	44977-09-25 01:26 G	18148839.46	18148839.56	18148839.66	0.2656	0.1069
Venus	44984-06-27 14:24 G	18151306.97	18151307.10	18151307.24	0.2685	0.1401
Mercury	44987-03-31 06:43 G	18152313.62	18152313.78	18152313.94	0.2677	0.0503
Mercury	44990-09-27 18:29 G	18153590.16	18153590.27	18153590.37	0.2655	0.0161

46TH MILLENNIUM CE

This is a list of transits visible from Earth in the 46th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	45003-10-01 11:31 G		18158340.88	18158340.98	18158341.07	0.2654	0.1369	
Mercury	45010-09-24 13:12 G		18160890.98	18160891.05	18160891.11	0.2656	0.2051	
Mercury	45016-10-03 04:19 G		18163091.66	18163091.68	18163091.70	0.2653	0.2576	
Mercury	45020-03-29 03:36 G		18164364.55	18164364.65	18164364.75	0.2676	0.2078	
Mercury	45023-09-27 06:14 G		18165641.65	18165641.76	18165641.86	0.2656	0.0835	
Mercury	45033-04-01 13:41 G		18169115.92	18169116.07	18169116.23	0.2677	0.1085	
Mercury	45036-09-28 23:02 G		18170392.36	18170392.46	18170392.57	0.2655	0.0407	
Mercury	45049-10-01 16:05 G		18175143.09	18175143.17	18175143.26	0.2654	0.1605	
Mercury	45056-09-24 17:46 G		18177693.17	18177693.24	18177693.32	0.2656	0.1811	
Mercury	45066-03-30 10:34 G		18181166.81	18181166.94	18181167.08	0.2676	0.1516	
Mercury	45069-09-27 10:48 G		18182443.85	18182443.95	18182444.06	0.2656	0.0590	
Mercury	45079-04-02 20:53 G		18185918.24	18185918.37	18185918.50	0.2677	0.1658	

Mercury	45082-09-30 03:50 G	18187194.56	18187194.66	18187194.77	0.2655	0.0633
Venus	45089-12-30 23:46 G	18189843.34	18189843.49	18189843.64	0.2646	0.0754
Mercury	45095-10-02 20:53 G	18191945.29	18191945.37	18191945.44	0.2654	0.1843
Mercury	45102-09-26 22:34 G	18194495.36	18194495.44	18194495.53	0.2656	0.1566
Mercury	45112-03-31 17:46 G	18197969.08	18197969.24	18197969.39	0.2676	0.0943
Mercury	45115-09-29 15:36 G	18199246.04	18199246.15	18199246.26	0.2655	0.0346
Mercury	45125-04-04 03:50 G	18202720.57	18202720.66	18202720.75	0.2677	0.2226
Mercury	45128-10-01 08:38 G	18203996.76	18203996.86	18203996.96	0.2655	0.0874
Mercury	45135-09-25 10:19 G	18206546.90	18206546.93	18206546.95	0.2657	0.2552
Mercury	45141-10-04 01:26 G	18208747.50	18208747.56	18208747.63	0.2654	0.2082
Mercury	45148-09-27 03:22 G	18211297.55	18211297.64	18211297.73	0.2656	0.1326
Mercury	45158-04-02 00:43 G	18214771.37	18214771.53	18214771.69	0.2676	0.0374
Mercury	45161-09-29 20:24 G	18216048.24	18216048.35	18216048.46	0.2655	0.0114
Mercury	45174-10-02 13:12 G	18220798.96	18220799.05	18220799.15	0.2654	0.1114
Mercury	45181-09-25 14:53 G	18223349.07	18223349.12	18223349.18	0.2657	0.2311
Mercury	45187-10-05 06:14 G	18225549.71	18225549.76	18225549.81	0.2654	0.2318
Mercury	45194-09-28 08:10 G	18228099.74	18228099.84	18228099.93	0.2656	0.1089
Mercury	45204-04-02 07:55 G	18231573.66	18231573.83	18231573.99	0.2676	0.0217
Mercury	45207-10-01 00:58 G	18232850.44	18232850.54	18232850.65	0.2655	0.0173
Venus	45219-07-03 00:29 G	18237143.44	18237143.52	18237143.61	0.2686	0.2250
Mercury	45220-10-02 18:00 G	18237601.16	18237601.25	18237601.34	0.2654	0.1349
Venus	45227-06-30 14:53 G	18240062.99	18240063.12	18240063.25	0.2686	0.1541
Mercury	45227-09-26 19:41 G	18240151.26	18240151.32	18240151.39	0.2657	0.2068
Mercury	45233-10-05 11:02 G	18242351.93	18242351.96	18242351.98	0.2653	0.2557
Mercury	45237-03-31 04:34 G	18243624.62	18243624.69	18243624.77	0.2676	0.2376
Mercury	45240-09-28 12:43 G	18244901.93	18244902.03	18244902.13	0.2656	0.0844
Mercury	45250-04-03 14:53 G	18248375.96	18248376.12	18248376.28	0.2677	0.0784
Mercury	45253-10-01 05:46 G	18249652.63	18249652.74	18249652.85	0.2655	0.0376
Mercury	45266-10-03 22:48 G	18254403.36	18254403.45	18254403.53	0.2654	0.1586
Mercury	45273-09-27 00:29 G	18256953.44	18256953.52	18256953.60	0.2657	0.1825

Mercury	45283-04-01 11:46 G	18260426.87	18260426.99	18260427.11	0.2676	0.1802
Mercury	45286-09-29 17:31 G	18261704.12	18261704.23	18261704.33	0.2656	0.0605
Mercury	45296-04-03 22:05 G	18265178.27	18265178.42	18265178.56	0.2677	0.1356
Mercury	45299-10-02 10:34 G	18266454.83	18266454.94	18266455.04	0.2655	0.0619
Mercury	45312-10-05 03:22 G	18271205.57	18271205.64	18271205.72	0.2654	0.1825
Mercury	45319-09-29 05:17 G	18273755.63	18273755.72	18273755.80	0.2657	0.1587
Mercury	45329-04-02 18:43 G	18277229.14	18277229.28	18277229.43	0.2676	0.1238
Mercury	45332-09-30 22:19 G	18278506.32	18278506.43	18278506.53	0.2656	0.0374
Venus	45333-01-02 01:55 G	18278599.43	18278599.58	18278599.73	0.2646	0.0817
Venus	45340-12-30 18:00 G	18281519.23	18281519.25	18281519.28	0.2645	0.2590
Mercury	45342-04-06 05:02 G	18281980.60	18281980.71	18281980.82	0.2677	0.1925
Mercury	45345-10-03 15:07 G	18283257.03	18283257.13	18283257.23	0.2655	0.0852
Mercury	45352-09-26 16:48 G	18285807.18	18285807.20	18285807.23	0.2657	0.2567
Mercury	45358-10-06 08:10 G	18288007.77	18288007.84	18288007.91	0.2654	0.2060
Mercury	45365-09-29 09:50 G	18290557.82	18290557.91	18290558.01	0.2656	0.1345
Mercury	45375-04-04 01:55 G	18294031.42	18294031.58	18294031.74	0.2676	0.0662
Mercury	45378-10-02 02:53 G	18295308.51	18295308.62	18295308.73	0.2655	0.0135
Mercury	45388-04-06 12:00 G	18298782.95	18298783.00	18298783.06	0.2677	0.2499
Mercury	45391-10-04 19:55 G	18300059.23	18300059.33	18300059.43	0.2655	0.1089
Mercury	45398-09-27 21:36 G	18302609.35	18302609.40	18302609.45	0.2657	0.2324
Mercury	45404-10-07 12:58 G	18304809.99	18304810.04	18304810.09	0.2654	0.2299
Mercury	45411-10-01 14:38 G	18307360.01	18307360.11	18307360.21	0.2656	0.1099
Mercury	45421-04-05 08:53 G	18310833.71	18310833.87	18310834.04	0.2676	0.0100
Mercury	45424-10-03 07:41 G	18312110.71	18312110.82	18312110.93	0.2655	0.0125
Mercury	45437-10-06 00:43 G	18316861.43	18316861.53	18316861.62	0.2654	0.1330
Mercury	45444-09-29 02:24 G	18319411.53	18319411.60	18319411.66	0.2657	0.2082
Mercury	45450-10-08 17:31 G	18321612.21	18321612.23	18321612.26	0.2654	0.2534
Mercury	45454-04-03 05:46 G	18322884.73	18322884.74	18322884.76	0.2675	0.2661
Mercury	45457-10-01 19:26 G	18324162.21	18324162.31	18324162.41	0.2656	0.0862
Venus	45462-07-05 00:58 G	18325899.44	18325899.54	18325899.64	0.2686	0.2106

Mercury	45467-04-06 16:05 G	18327636.00	18327636.17	18327636.33	0.2676	0.0480
Venus	45470-07-02 15:07 G	18328819.00	18328819.13	18328819.25	0.2686	0.1687
Mercury	45470-10-04 12:29 G	18328912.91	18328913.02	18328913.12	0.2655	0.0373
Mercury	45483-10-07 05:17 G	18333663.64	18333663.72	18333663.81	0.2654	0.1571
Mercury	45490-09-30 07:12 G	18336213.72	18336213.80	18336213.87	0.2657	0.1847
Mercury	45500-04-04 12:58 G	18339686.94	18339687.04	18339687.14	0.2675	0.2091
Mercury	45503-10-04 00:00 G	18340964.40	18340964.50	18340964.61	0.2656	0.0628
Mercury	45513-04-07 23:02 G	18344438.31	18344438.46	18344438.61	0.2677	0.1049
Mercury	45516-10-05 17:02 G	18345715.11	18345715.21	18345715.32	0.2655	0.0597
Mercury	45529-10-08 10:05 G	18350465.84	18350465.92	18350466.00	0.2654	0.1804
Mercury	45536-10-01 11:46 G	18353015.91	18353015.99	18353016.08	0.2657	0.1601
Mercury	45546-04-05 19:55 G	18356489.20	18356489.33	18356489.47	0.2675	0.1523
Mercury	45549-10-04 04:48 G	18357766.59	18357766.70	18357766.81	0.2656	0.0384
Mercury	45559-04-09 06:14 G	18361240.63	18361240.76	18361240.89	0.2677	0.1626
Mercury	45562-10-06 21:50 G	18362517.31	18362517.41	18362517.51	0.2655	0.0831
Mercury	45569-09-29 23:31 G	18365067.46	18365067.48	18365067.50	0.2657	0.2586
Mercury	45575-10-09 14:53 G	18367268.05	18367268.12	18367268.18	0.2654	0.2044
Venus	45576-01-05 04:05 G	18367355.52	18367355.67	18367355.82	0.2645	0.0858
Mercury	45582-10-02 16:34 G	18369818.10	18369818.19	18369818.28	0.2657	0.1362
Venus	45584-01-02 20:10 G	18370275.30	18370275.34	18370275.38	0.2645	0.2548
Mercury	45592-04-06 03:07 G	18373291.47	18373291.63	18373291.78	0.2676	0.0960
Mercury	45595-10-05 09:36 G	18374568.79	18374568.90	18374569.00	0.2656	0.0164
Mercury	45605-04-09 13:12 G	18378042.96	18378043.05	18378043.14	0.2677	0.2194
Mercury	45608-10-07 02:38 G	18379319.51	18379319.61	18379319.70	0.2655	0.1075
Mercury	45615-10-01 04:19 G	18381869.63	18381869.68	18381869.72	0.2657	0.2347
Mercury	45621-10-09 19:26 G	18384070.26	18384070.31	18384070.37	0.2654	0.2276
Mercury	45628-10-02 21:07 G	18386620.29	18386620.38	18386620.48	0.2656	0.1127
Mercury	45638-04-07 10:05 G	18390093.76	18390093.92	18390094.08	0.2676	0.0390
Mercury	45641-10-05 14:10 G	18391370.99	18391371.09	18391371.20	0.2656	0.0133
Mercury	45654-10-08 07:12 G	18396121.71	18396121.80	18396121.90	0.2655	0.1311

Mercury	45661-10-01 08:53 G	18398671.81	18398671.87	18398671.94	0.2657	0.2104
Mercury	45667-10-11 00:14 G	18400872.48	18400872.51	18400872.54	0.2654	0.2514
Mercury	45674-10-04 01:55 G	18403422.48	18403422.58	18403422.68	0.2656	0.0884
Mercury	45684-04-07 17:02 G	18406896.05	18406896.21	18406896.38	0.2676	0.0175
Mercury	45687-10-06 18:58 G	18408173.18	18408173.29	18408173.40	0.2655	0.0337
Mercury	45700-10-09 12:00 G	18412923.91	18412924.00	18412924.09	0.2655	0.1543
Venus	45705-07-07 00:58 G	18414655.44	18414655.54	18414655.65	0.2687	0.1955
Mercury	45707-10-03 13:41 G	18415473.99	18415474.07	18415474.14	0.2657	0.1861
Venus	45713-07-04 15:07 G	18417575.02	18417575.13	18417575.25	0.2687	0.1844
Mercury	45717-04-06 14:10 G	18418947.02	18418947.09	18418947.16	0.2675	0.2386
Mercury	45720-10-05 06:43 G	18420224.67	18420224.78	18420224.88	0.2656	0.0642
Mercury	45730-04-10 00:14 G	18423698.35	18423698.51	18423698.66	0.2676	0.0744
Mercury	45733-10-07 23:46 G	18424975.38	18424975.49	18424975.59	0.2655	0.0573
Mercury	45746-10-10 16:48 G	18429726.12	18429726.20	18429726.27	0.2655	0.1786
Mercury	45753-10-03 18:29 G	18432276.18	18432276.27	18432276.35	0.2657	0.1623
Mercury	45763-04-07 21:07 G	18435749.26	18435749.38	18435749.50	0.2675	0.1822
Mercury	45766-10-06 11:31 G	18437026.87	18437026.98	18437027.08	0.2656	0.0408
Mercury	45776-04-10 07:12 G	18440500.66	18440500.80	18440500.94	0.2676	0.1309
Mercury	45779-10-09 04:19 G	18441777.58	18441777.68	18441777.79	0.2655	0.0823
Mercury	45786-10-02 06:00 G	18444327.73	18444327.75	18444327.77	0.2658	0.2606
Mercury	45792-10-10 21:22 G	18446528.32	18446528.39	18446528.46	0.2654	0.2017
Mercury	45799-10-04 23:02 G	18449078.37	18449078.46	18449078.55	0.2657	0.1383
Mercury	45809-04-09 04:19 G	18452551.53	18452551.68	18452551.82	0.2675	0.1253
Mercury	45812-10-07 16:05 G	18453829.07	18453829.17	18453829.28	0.2656	0.0185
Venus	45819-01-07 06:14 G	18456111.61	18456111.76	18456111.90	0.2645	0.0914
Mercury	45822-04-12 14:24 G	18457302.98	18457303.10	18457303.21	0.2676	0.1883
Mercury	45825-10-10 09:07 G	18458579.78	18458579.88	18458579.98	0.2655	0.1053
Venus	45827-01-04 22:34 G	18459031.38	18459031.44	18459031.49	0.2644	0.2469
Mercury	45832-10-03 10:48 G	18461129.90	18461129.95	18461129.99	0.2658	0.2366
Mercury	45838-10-13 02:10 G	18463330.53	18463330.59	18463330.64	0.2654	0.2258

Mercury	45845-10-06 03:50 G	18465880.56	18465880.66	18465880.76	0.2657	0.1143
Mercury	45855-04-10 11:17 G	18469353.81	18469353.97	18469354.13	0.2675	0.0694
Mercury	45858-10-08 20:53 G	18470631.26	18470631.37	18470631.48	0.2656	0.0077
Mercury	45868-04-12 21:22 G	18474105.33	18474105.39	18474105.45	0.2677	0.2453
Mercury	45871-10-11 13:55 G	18475381.98	18475382.08	18475382.17	0.2655	0.1288
Mercury	45878-10-04 15:36 G	18477932.08	18477932.15	18477932.21	0.2657	0.2127
Mercury	45884-10-13 06:43 G	18480132.75	18480132.78	18480132.82	0.2654	0.2492
Mercury	45891-10-07 08:38 G	18482682.76	18482682.86	18482682.96	0.2657	0.0904
Mercury	45901-04-11 18:14 G	18486156.10	18486156.26	18486156.43	0.2676	0.0126
Mercury	45904-10-10 01:41 G	18487433.46	18487433.57	18487433.67	0.2656	0.0325
Mercury	45917-10-12 18:29 G	18492184.19	18492184.27	18492184.36	0.2655	0.1524
Mercury	45924-10-05 20:10 G	18494734.27	18494734.34	18494734.42	0.2657	0.1886
Mercury	45937-10-08 13:12 G	18499484.95	18499485.05	18499485.16	0.2657	0.0672
Mercury	45947-04-13 01:26 G	18502958.39	18502958.56	18502958.72	0.2676	0.0448
Venus	45948-07-09 01:12 G	18503411.44	18503411.55	18503411.67	0.2687	0.1814
Mercury	45950-10-11 06:14 G	18504235.66	18504235.76	18504235.87	0.2655	0.0555
Venus	45956-07-06 15:22 G	18506331.03	18506331.14	18506331.24	0.2688	0.1999
Mercury	45963-10-13 23:17 G	18508986.39	18508986.47	18508986.55	0.2655	0.1758
Mercury	45970-10-07 00:58 G	18511536.46	18511536.54	18511536.62	0.2657	0.1643
Mercury	45980-04-09 22:19 G	18515009.33	18515009.43	18515009.53	0.2675	0.2117
Mercury	45983-10-09 18:00 G	18516287.15	18516287.25	18516287.36	0.2656	0.0425
Mercury	45993-04-13 08:24 G	18519760.70	18519760.85	18519761.00	0.2676	0.1006
Mercury	45996-10-11 11:02 G	18521037.86	18521037.96	18521038.06	0.2655	0.0789

47TH MILLENNIUM CE

This is a list of transits visible from Earth in the 47th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	46003-10-05 12:43	G	18523588.01	18523588.03	18523588.04	0.2658	0.2628	
Mercury	46009-10-14 04:05	G	18525788.60	18525788.67	18525788.74	0.2655	0.1996	
Mercury	46016-10-07 05:46	G	18528338.65	18528338.74	18528338.83	0.2657	0.1402	
Mercury	46026-04-11 05:17	G	18531811.59	18531811.72	18531811.85	0.2675	0.1559	
Mercury	46029-10-09 22:48	G	18533089.34	18533089.45	18533089.55	0.2656	0.0193	
Mercury	46039-04-14 15:22	G	18536563.01	18536563.14	18536563.27	0.2676	0.1567	
Mercury	46042-10-12 15:50	G	18537840.06	18537840.16	18537840.25	0.2655	0.1032	
Mercury	46049-10-05 17:17	G	18540390.18	18540390.22	18540390.27	0.2658	0.2385	
Mercury	46055-10-15 08:38	G	18542590.81	18542590.86	18542590.92	0.2654	0.2229	
Venus	46062-01-08 08:24	G	18544867.70	18544867.85	18544868.00	0.2644	0.0976	
Mercury	46062-10-08 10:34	G	18545140.84	18545140.94	18545141.03	0.2657	0.1166	
Venus	46070-01-06 00:29	G	18547787.46	18547787.52	18547787.58	0.2644	0.2418	
Mercury	46072-04-11 12:29	G	18548613.86	18548614.02	18548614.17	0.2675	0.0994	
Mercury	46075-10-11 03:22	G	18549891.54	18549891.64	18549891.75	0.2656	0.0110	
Mercury	46085-04-14 22:19	G	18553365.34	18553365.43	18553365.53	0.2676	0.2135	
Mercury	46088-10-12 20:24	G	18554642.26	18554642.35	18554642.45	0.2655	0.1262	
Mercury	46095-10-06 22:05	G	18557192.36	18557192.42	18557192.48	0.2658	0.2146	
Mercury	46101-10-16 13:26	G	18559393.02	18559393.06	18559393.10	0.2654	0.2466	
Mercury	46108-10-09 15:07	G	18561943.03	18561943.13	18561943.23	0.2657	0.0924	
Mercury	46118-04-13 19:26	G	18565416.15	18565416.31	18565416.47	0.2675	0.0424	
Mercury	46121-10-12 08:10	G	18566693.73	18566693.84	18566693.95	0.2656	0.0293	
Mercury	46134-10-15 01:12	G	18571444.46	18571444.55	18571444.64	0.2655	0.1500	
Mercury	46141-10-08 02:53	G	18573994.54	18573994.62	18573994.69	0.2658	0.1905	
Mercury	46154-10-10 19:55	G	18578745.22	18578745.33	18578745.43	0.2657	0.0687	
Mercury	46164-04-14 02:38	G	18582218.44	18582218.61	18582218.77	0.2675	0.0160	
Mercury	46167-10-13 12:58	G	18583495.93	18583496.04	18583496.14	0.2656	0.0531	

Mercury	46180-10-15 06:00 G	18588246.67	18588246.75	18588246.83	0.2655	0.1737
Mercury	46187-10-09 07:26 G	18590796.73	18590796.81	18590796.90	0.2658	0.1670
Venus	46191-07-11 01:12 G	18592167.43	18592167.55	18592167.68	0.2688	0.1635
Mercury	46197-04-11 23:31 G	18594269.41	18594269.48	18594269.55	0.2674	0.2408
Venus	46199-07-08 15:22 G	18595087.05	18595087.14	18595087.23	0.2688	0.2166
Mercury	46200-10-12 00:29 G	18595547.42	18595547.52	18595547.63	0.2657	0.0459
Mercury	46210-04-16 09:36 G	18599020.74	18599020.90	18599021.05	0.2676	0.0702
Mercury	46213-10-14 17:31 G	18600298.13	18600298.23	18600298.34	0.2656	0.0770
Mercury	46220-10-07 19:12 G	18602848.30	18602848.30	18602848.31	0.2658	0.2647
Mercury	46226-10-17 10:34 G	18605048.87	18605048.94	18605049.01	0.2655	0.1970
Mercury	46233-10-10 12:14 G	18607598.92	18607599.01	18607599.10	0.2657	0.1426
Mercury	46243-04-14 06:29 G	18611071.66	18611071.77	18611071.89	0.2675	0.1844
Mercury	46246-10-13 05:17 G	18612349.61	18612349.72	18612349.83	0.2656	0.0211
Mercury	46256-04-16 16:34 G	18615823.04	18615823.19	18615823.33	0.2676	0.1262
Mercury	46259-10-15 22:19 G	18617100.33	18617100.43	18617100.53	0.2656	0.1000
Mercury	46266-10-09 00:00 G	18619650.46	18619650.50	18619650.54	0.2658	0.2410
Mercury	46272-10-17 15:22 G	18621851.08	18621851.14	18621851.20	0.2655	0.2204
Mercury	46279-10-11 17:02 G	18624401.11	18624401.21	18624401.30	0.2657	0.1185
Mercury	46289-04-14 13:26 G	18627873.92	18627874.06	18627874.21	0.2675	0.1290
Mercury	46292-10-13 10:05 G	18629151.81	18629151.92	18629152.03	0.2656	0.0044
Mercury	46302-04-18 23:31 G	18632625.37	18632625.48	18632625.60	0.2676	0.1832
Venus	46305-01-11 10:34 G	18633623.79	18633623.94	18633624.08	0.2644	0.1023
Mercury	46305-10-17 03:07 G	18633902.53	18633902.63	18633902.72	0.2655	0.1238
Mercury	46312-10-10 04:34 G	18636452.63	18636452.69	18636452.76	0.2658	0.2168
Venus	46313-01-09 02:53 G	18636543.55	18636543.62	18636543.69	0.2643	0.2337
Mercury	46318-10-19 19:55 G	18638653.30	18638653.33	18638653.37	0.2655	0.2440
Mercury	46325-10-12 21:36 G	18641203.30	18641203.40	18641203.51	0.2657	0.0955
Mercury	46335-04-16 20:38 G	18644676.20	18644676.36	18644676.52	0.2675	0.0732
Mercury	46338-10-15 14:53 G	18645954.01	18645954.12	18645954.22	0.2656	0.0284
Mercury	46348-04-19 06:29 G	18649427.70	18649427.77	18649427.85	0.2676	0.2388

Mercury	46351-10-18 07:55 G	18650704.74	18650704.83	18650704.91	0.2655	0.1478
Mercury	46358-10-11 09:22 G	18653254.82	18653254.89	18653254.96	0.2658	0.1929
Mercury	46371-10-14 02:24 G	18658005.50	18658005.60	18658005.71	0.2657	0.0710
Mercury	46381-04-17 03:36 G	18661478.48	18661478.65	18661478.81	0.2675	0.0181
Mercury	46384-10-15 19:26 G	18662756.21	18662756.31	18662756.42	0.2656	0.0509
Mercury	46397-10-18 12:29 G	18667506.94	18667507.02	18667507.10	0.2655	0.1708
Mercury	46404-10-11 14:10 G	18670057.01	18670057.09	18670057.17	0.2658	0.1688
Mercury	46417-10-14 07:12 G	18674807.69	18674807.80	18674807.91	0.2657	0.0471
Mercury	46427-04-18 10:34 G	18678280.78	18678280.94	18678281.11	0.2675	0.0396
Mercury	46430-10-17 00:14 G	18679558.41	18679558.51	18679558.61	0.2656	0.0741
Venus	46434-07-13 01:26 G	18680923.42	18680923.56	18680923.69	0.2688	0.1486
Venus	46442-07-10 15:22 G	18683843.06	18683843.14	18683843.21	0.2689	0.2336
Mercury	46443-10-19 17:17 G	18684309.15	18684309.22	18684309.29	0.2655	0.1945
Mercury	46450-10-12 18:58 G	18686859.20	18686859.29	18686859.37	0.2658	0.1454
Mercury	46460-04-15 07:41 G	18690331.73	18690331.82	18690331.92	0.2674	0.2139
Mercury	46463-10-15 12:00 G	18691609.89	18691610.00	18691610.10	0.2657	0.0239
Mercury	46473-04-18 17:46 G	18695083.09	18695083.24	18695083.39	0.2675	0.0961
Mercury	46476-10-17 05:02 G	18696360.61	18696360.71	18696360.81	0.2656	0.0980
Mercury	46483-10-11 06:29 G	18698910.73	18698910.77	18698910.81	0.2659	0.2433
Mercury	46489-10-19 21:50 G	18701111.35	18701111.41	18701111.47	0.2655	0.2181
Mercury	46496-10-12 23:31 G	18703661.39	18703661.48	18703661.58	0.2658	0.1213
Mercury	46506-04-17 14:38 G	18707133.98	18707134.11	18707134.25	0.2674	0.1583
Mercury	46509-10-16 16:34 G	18708412.09	18708412.19	18708412.30	0.2657	0.0094
Mercury	46519-04-21 00:43 G	18711885.40	18711885.53	18711885.67	0.2676	0.1516
Mercury	46522-10-19 09:36 G	18713162.81	18713162.90	18713163.00	0.2656	0.1216
Mercury	46529-10-12 11:17 G	18715712.91	18715712.97	18715713.03	0.2658	0.2197
Mercury	46535-10-22 02:38 G	18717913.57	18717913.61	18717913.65	0.2655	0.2413
Mercury	46542-10-15 04:19 G	18720463.58	18720463.68	18720463.78	0.2657	0.0974
Venus	46548-01-13 12:43 G	18722379.89	18722380.03	18722380.18	0.2643	0.1103
Mercury	46552-04-17 21:50 G	18723936.25	18723936.41	18723936.56	0.2675	0.1033

Mercury	46555-10-17 21:22 G	18725214.28	18725214.39	18725214.50	0.2657	0.0242
Venus	46556-01-11 05:02 G	18725299.64	18725299.71	18725299.79	0.2643	0.2274
Mercury	46565-04-21 07:41 G	18728687.72	18728687.82	18728687.93	0.2676	0.2078
Mercury	46568-10-19 14:24 G	18729965.01	18729965.10	18729965.19	0.2656	0.1447
Mercury	46575-10-13 15:50 G	18732515.09	18732515.16	18732515.24	0.2658	0.1955
Mercury	46581-10-22 07:26 G	18734715.80	18734715.81	18734715.81	0.2655	0.2646
Mercury	46588-10-15 09:07 G	18737265.77	18737265.88	18737265.98	0.2657	0.0737
Mercury	46598-04-19 04:48 G	18740738.54	18740738.70	18740738.86	0.2675	0.0468
Mercury	46601-10-19 02:10 G	18742016.48	18742016.59	18742016.69	0.2656	0.0481
Mercury	46611-04-23 14:53 G	18745490.09	18745490.12	18745490.14	0.2676	0.2637
Mercury	46614-10-21 19:12 G	18746767.21	18746767.30	18746767.38	0.2656	0.1685
Mercury	46621-10-14 20:38 G	18749317.28	18749317.36	18749317.44	0.2658	0.1715
Mercury	46634-10-17 13:55 G	18754067.97	18754068.08	18754068.18	0.2657	0.0507
Mercury	46644-04-20 11:46 G	18757540.83	18757540.99	18757541.16	0.2675	0.0090
Mercury	46647-10-20 06:43 G	18758818.68	18758818.78	18758818.89	0.2656	0.0719
Mercury	46660-10-21 23:46 G	18763569.42	18763569.49	18763569.57	0.2655	0.1917
Mercury	46667-10-16 01:26 G	18766119.47	18766119.56	18766119.65	0.2658	0.1472
Mercury	46677-04-18 08:53 G	18769591.81	18769591.87	18769591.94	0.2674	0.2433
Venus	46677-07-15 01:12 G	18769679.42	18769679.55	18769679.69	0.2689	0.1314
Mercury	46680-10-17 18:29 G	18770870.16	18770870.27	18770870.38	0.2657	0.0261
Venus	46685-07-12 15:07 G	18772599.08	18772599.13	18772599.19	0.2689	0.2504
Mercury	46690-04-21 18:43 G	18774343.13	18774343.28	18774343.44	0.2675	0.0647
Mercury	46693-10-20 11:31 G	18775620.88	18775620.98	18775621.08	0.2656	0.0952
Mercury	46700-10-14 12:58 G	18778171.01	18778171.04	18778171.08	0.2659	0.2460
Mercury	46706-10-24 04:34 G	18780371.63	18780371.69	18780371.75	0.2655	0.2152
Mercury	46713-10-17 06:14 G	18782921.66	18782921.76	18782921.85	0.2658	0.1237
Mercury	46723-04-20 16:05 G	18786394.05	18786394.17	18786394.28	0.2674	0.1882
Mercury	46726-10-19 23:17 G	18787672.36	18787672.47	18787672.58	0.2657	0.0043
Mercury	46736-04-23 01:55 G	18791145.43	18791145.58	18791145.72	0.2675	0.1203
Mercury	46739-10-22 16:19 G	18792423.08	18792423.18	18792423.27	0.2656	0.1189

Mercury	46746-10-15 17:46 G	18794973.18	18794973.24	18794973.30	0.2659	0.2217
Mercury	46752-10-24 09:22 G	18797173.84	18797173.89	18797173.93	0.2655	0.2387
Mercury	46759-10-18 10:48 G	18799723.86	18799723.95	18799724.05	0.2658	0.1003
Mercury	46769-04-20 23:02 G	18803196.32	18803196.46	18803196.60	0.2674	0.1314
Mercury	46772-10-20 03:50 G	18804474.56	18804474.66	18804474.77	0.2657	0.0243
Mercury	46782-04-24 08:53 G	18807947.75	18807947.87	18807948.00	0.2675	0.1769
Mercury	46785-10-22 21:07 G	18809225.29	18809225.38	18809225.47	0.2656	0.1427
Venus	46791-01-15 15:07 G	18811135.99	18811136.13	18811136.27	0.2643	0.1164
Mercury	46792-10-15 22:34 G	18811775.37	18811775.44	18811775.51	0.2659	0.1980
Mercury	46798-10-25 13:55 G	18813976.07	18813976.08	18813976.10	0.2655	0.2621
Venus	46799-01-13 07:26 G	18814055.72	18814055.81	18814055.90	0.2643	0.2187
Mercury	46805-10-18 15:36 G	18816526.05	18816526.15	18816526.25	0.2658	0.0759
Mercury	46815-04-22 06:00 G	18819998.59	18819998.75	18819998.91	0.2674	0.0769
Mercury	46818-10-21 08:38 G	18821276.76	18821276.86	18821276.97	0.2657	0.0455
Mercury	46828-04-24 16:05 G	18824750.09	18824750.17	18824750.25	0.2676	0.2336
Mercury	46831-10-24 01:41 G	18826027.49	18826027.57	18826027.66	0.2656	0.1656
Mercury	46838-10-17 03:22 G	18828577.56	18828577.64	18828577.72	0.2658	0.1740
Mercury	46851-10-19 20:24 G	18833328.24	18833328.35	18833328.45	0.2657	0.0526
Mercury	46861-04-22 12:58 G	18836800.88	18836801.04	18836801.21	0.2674	0.0222
Mercury	46864-10-21 13:26 G	18838078.96	18838079.06	18838079.16	0.2657	0.0688
Mercury	46877-10-24 06:29 G	18842829.70	18842829.77	18842829.84	0.2656	0.1891
Mercury	46884-10-17 07:55 G	18845379.75	18845379.83	18845379.92	0.2658	0.1505
Mercury	46897-10-20 01:12 G	18850130.44	18850130.55	18850130.65	0.2657	0.0308
Mercury	46907-04-24 19:55 G	18853603.17	18853603.33	18853603.50	0.2675	0.0348
Mercury	46910-10-23 18:14 G	18854881.16	18854881.26	18854881.36	0.2656	0.0929
Mercury	46917-10-16 19:41 G	18857431.28	18857431.32	18857431.35	0.2659	0.2481
Venus	46920-07-17 01:12 G	18858435.41	18858435.55	18858435.70	0.2689	0.1149
Mercury	46923-10-26 11:02 G	18859631.90	18859631.96	18859632.03	0.2655	0.2124
Venus	46928-07-14 15:07 G	18861355.12	18861355.13	18861355.15	0.2689	0.2668
Mercury	46930-10-19 12:43 G	18862181.94	18862182.03	18862182.13	0.2658	0.1259

Mercury	46940-04-21 17:17 G	18865654.13	18865654.22	18865654.31	0.2674	0.2165
Mercury	46943-10-22 05:46 G	18866932.63	18866932.74	18866932.85	0.2657	0.0072
Mercury	46953-04-25 03:07 G	18870405.47	18870405.63	18870405.78	0.2675	0.0900
Mercury	46956-10-23 22:48 G	18871683.36	18871683.45	18871683.55	0.2656	0.1160
Mercury	46963-10-18 00:29 G	18874233.46	18874233.52	18874233.57	0.2659	0.2244
Mercury	46969-10-26 15:50 G	18876434.11	18876434.16	18876434.21	0.2655	0.2356
Mercury	46976-10-19 17:31 G	18878984.13	18878984.23	18878984.33	0.2658	0.1021
Mercury	46986-04-23 00:14 G	18882456.38	18882456.51	18882456.64	0.2674	0.1622
Mercury	46989-10-22 10:34 G	18883734.83	18883734.94	18883735.05	0.2657	0.0193
Mercury	46999-04-26 10:05 G	18887207.78	18887207.92	18887208.06	0.2675	0.1457

48TH MILLENNIUM CE

This is a list of transits visible from Earth in the 48th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	47002-10-26 03:36 G		18888485.56	18888485.65	18888485.74	0.2656	0.1393	
Mercury	47009-10-19 05:02 G		18891035.64	18891035.71	18891035.78	0.2659	0.2004	
Mercury	47015-10-28 20:38 G		18893236.34	18893236.36	18893236.38	0.2655	0.2588	
Mercury	47022-10-21 22:19 G		18895786.32	18895786.43	18895786.53	0.2658	0.0790	
Mercury	47032-04-24 07:12 G		18899258.65	18899258.80	18899258.95	0.2674	0.1062	
Venus	47034-01-17 17:31 G		18899892.09	18899892.23	18899892.37	0.2642	0.1248	
Mercury	47035-10-24 15:22 G		18900537.03	18900537.14	18900537.24	0.2657	0.0429	
Venus	47042-01-15 10:05 G		18902811.82	18902811.92	18902812.01	0.2642	0.2098	
Mercury	47045-04-27 17:02 G		18904010.11	18904010.21	18904010.32	0.2675	0.2010	

Mercury	47048-10-26 08:24 G	18905287.76	18905287.85	18905287.93	0.2656	0.1632
Mercury	47055-10-20 09:50 G	18907837.83	18907837.91	18907837.99	0.2659	0.1766
Mercury	47068-10-22 02:53 G	18912588.52	18912588.62	18912588.73	0.2658	0.0553
Mercury	47078-04-25 14:10 G	18916060.93	18916061.09	18916061.26	0.2674	0.0517
Mercury	47081-10-24 19:55 G	18917339.23	18917339.33	18917339.44	0.2657	0.0673
Mercury	47091-04-29 00:14 G	18920812.47	18920812.51	18920812.55	0.2675	0.2575
Mercury	47094-10-27 12:58 G	18922089.97	18922090.04	18922090.12	0.2656	0.1863
Mercury	47101-10-21 14:38 G	18924640.02	18924640.11	18924640.19	0.2659	0.1527
Mercury	47114-10-24 07:41 G	18929390.71	18929390.82	18929390.93	0.2658	0.0310
Mercury	47124-04-26 21:22 G	18932863.22	18932863.39	18932863.55	0.2674	0.0058
Mercury	47127-10-27 00:43 G	18934141.43	18934141.53	18934141.63	0.2657	0.0894
Mercury	47134-10-20 02:10 G	18936691.56	18936691.59	18936691.62	0.2659	0.2510
Mercury	47140-10-28 17:46 G	18938892.18	18938892.24	18938892.30	0.2656	0.2096
Mercury	47147-10-22 19:12 G	18941442.21	18941442.30	18941442.40	0.2659	0.1294
Mercury	47157-04-24 18:29 G	18944914.21	18944914.27	18944914.33	0.2673	0.2454
Mercury	47160-10-24 12:29 G	18946192.91	18946193.02	18946193.13	0.2658	0.0088
Venus	47163-07-20 01:12 G	18947191.41	18947191.55	18947191.70	0.2689	0.0998
Mercury	47170-04-28 04:19 G	18949665.52	18949665.68	18949665.84	0.2674	0.0597
Mercury	47173-10-27 05:31 G	18950943.63	18950943.73	18950943.82	0.2657	0.1133
Mercury	47180-10-20 06:58 G	18953493.73	18953493.79	18953493.84	0.2659	0.2271
Mercury	47186-10-29 22:34 G	18955694.39	18955694.44	18955694.49	0.2656	0.2328
Mercury	47193-10-23 00:00 G	18958244.40	18958244.50	18958244.60	0.2658	0.1051
Mercury	47203-04-26 01:26 G	18961716.45	18961716.56	18961716.68	0.2673	0.1904
Mercury	47206-10-25 17:02 G	18962995.11	18962995.21	18962995.32	0.2657	0.0197
Mercury	47216-04-28 11:17 G	18966467.83	18966467.97	18966468.12	0.2675	0.1154
Mercury	47219-10-28 10:05 G	18967745.83	18967745.92	18967746.02	0.2656	0.1370
Mercury	47226-10-21 11:46 G	18970295.92	18970295.99	18970296.05	0.2659	0.2031
Mercury	47232-10-30 03:07 G	18972496.61	18972496.63	18972496.66	0.2656	0.2563
Mercury	47239-10-24 04:48 G	18975046.60	18975046.70	18975046.80	0.2658	0.0814
Mercury	47249-04-26 08:24 G	18978518.71	18978518.85	18978518.99	0.2673	0.1364

Mercury	47252-10-25 21:50 G	18979797.31	18979797.41	18979797.52	0.2657	0.0400
Mercury	47262-04-29 18:29 G	18983270.14	18983270.27	18983270.39	0.2675	0.1706
Mercury	47265-10-28 14:53 G	18984548.04	18984548.12	18984548.21	0.2656	0.1598
Mercury	47272-10-21 16:19 G	18987098.11	18987098.18	18987098.26	0.2659	0.1792
Venus	47277-01-18 19:55 G	18988648.20	18988648.33	18988648.47	0.2642	0.1341
Venus	47285-01-16 12:14 G	18991567.91	18991568.01	18991568.12	0.2642	0.2010
Mercury	47285-10-24 09:36 G	18991848.79	18991848.90	18991849.00	0.2658	0.0575
Mercury	47295-04-27 15:36 G	18995320.99	18995321.15	18995321.30	0.2674	0.0809
Mercury	47298-10-27 02:38 G	18996599.50	18996599.61	18996599.71	0.2657	0.0633
Mercury	47308-05-01 01:26 G	19000072.47	19000072.56	19000072.64	0.2675	0.2257
Mercury	47311-10-30 19:41 G	19001350.24	19001350.32	19001350.39	0.2656	0.1833
Mercury	47318-10-23 21:07 G	19003900.30	19003900.38	19003900.47	0.2659	0.1554
Mercury	47331-10-26 14:24 G	19008650.99	19008651.10	19008651.20	0.2658	0.0351
Mercury	47341-04-28 22:34 G	19012123.28	19012123.44	19012123.60	0.2674	0.0261
Mercury	47344-10-28 07:26 G	19013401.70	19013401.81	19013401.91	0.2657	0.0878
Mercury	47351-10-22 08:38 G	19015951.83	19015951.86	19015951.89	0.2660	0.2539
Mercury	47357-10-31 00:29 G	19018152.45	19018152.52	19018152.58	0.2656	0.2069
Mercury	47364-10-24 01:55 G	19020702.49	19020702.58	19020702.67	0.2659	0.1315
Mercury	47377-10-26 18:58 G	19025453.18	19025453.29	19025453.40	0.2658	0.0111
Mercury	47387-04-30 05:31 G	19028925.57	19028925.73	19028925.90	0.2674	0.0307
Mercury	47390-10-29 12:00 G	19030203.91	19030204.00	19030204.10	0.2657	0.1105
Mercury	47397-10-22 13:26 G	19032754.01	19032754.06	19032754.11	0.2660	0.2298
Mercury	47403-11-02 05:02 G	19034954.66	19034954.71	19034954.76	0.2656	0.2304
Venus	47406-07-22 01:12 G	19035947.39	19035947.55	19035947.70	0.2690	0.0808
Mercury	47410-10-26 06:43 G	19037504.68	19037504.78	19037504.87	0.2659	0.1082
Mercury	47420-04-28 02:53 G	19040976.53	19040976.62	19040976.71	0.2673	0.2192
Mercury	47423-10-28 23:46 G	19042255.38	19042255.49	19042255.60	0.2658	0.0139
Mercury	47433-05-01 12:29 G	19045727.87	19045728.02	19045728.18	0.2674	0.0848
Mercury	47436-10-30 16:48 G	19047006.11	19047006.20	19047006.29	0.2657	0.1338
Mercury	47443-10-24 18:14 G	19049556.19	19049556.26	19049556.33	0.2660	0.2059

Mercury	47449-11-02 09:50 G	19051756.88	19051756.91	19051756.94	0.2656	0.2530
Mercury	47456-10-26 11:17 G	19054306.87	19054306.97	19054307.08	0.2658	0.0845
Mercury	47466-04-29 09:50 G	19057778.78	19057778.91	19057779.04	0.2673	0.1644
Mercury	47469-10-29 04:19 G	19059057.58	19059057.68	19059057.79	0.2658	0.0386
Mercury	47479-05-02 19:41 G	19062530.18	19062530.32	19062530.46	0.2674	0.1400
Mercury	47482-10-31 21:36 G	19063808.31	19063808.40	19063808.48	0.2657	0.1570
Mercury	47489-10-24 23:02 G	19066358.38	19066358.46	19066358.54	0.2659	0.1822
Mercury	47502-10-28 16:05 G	19071109.07	19071109.17	19071109.28	0.2658	0.0605
Mercury	47512-04-30 16:48 G	19074581.05	19074581.20	19074581.35	0.2673	0.1102
Mercury	47515-10-31 09:07 G	19075859.78	19075859.88	19075859.99	0.2657	0.0608
Venus	47520-01-22 22:19 G	19077404.30	19077404.43	19077404.57	0.2642	0.1422
Mercury	47525-05-04 02:38 G	19079332.50	19079332.61	19079332.72	0.2675	0.1952
Venus	47528-01-20 15:07 G	19080324.02	19080324.13	19080324.23	0.2642	0.1899
Mercury	47528-11-02 02:10 G	19080610.52	19080610.59	19080610.67	0.2656	0.1807
Mercury	47535-10-27 03:50 G	19083160.57	19083160.66	19083160.74	0.2659	0.1585
Mercury	47548-10-28 20:53 G	19087911.26	19087911.37	19087911.47	0.2658	0.0372
Mercury	47558-05-01 23:46 G	19091383.33	19091383.49	19091383.65	0.2673	0.0558
Mercury	47561-10-31 13:55 G	19092661.98	19092662.08	19092662.18	0.2657	0.0838
Mercury	47568-10-24 15:22 G	19095212.11	19095212.14	19095212.16	0.2660	0.2565
Mercury	47571-05-05 09:36 G	19096134.85	19096134.90	19096134.96	0.2675	0.2501
Mercury	47574-11-03 06:58 G	19097412.72	19097412.79	19097412.86	0.2656	0.2037
Mercury	47581-10-27 08:24 G	19099962.76	19099962.85	19099962.94	0.2659	0.1345
Mercury	47594-10-30 01:41 G	19104713.46	19104713.57	19104713.67	0.2658	0.0172
Mercury	47604-05-02 06:43 G	19108185.62	19108185.78	19108185.95	0.2674	0.0030
Mercury	47607-11-01 18:43 G	19109464.18	19109464.28	19109464.38	0.2657	0.1076
Mercury	47614-10-25 20:10 G	19112014.29	19112014.34	19112014.39	0.2660	0.2326
Mercury	47620-11-03 11:46 G	19114214.93	19114214.99	19114215.04	0.2656	0.2266
Mercury	47627-10-28 13:12 G	19116764.95	19116765.05	19116765.15	0.2659	0.1106
Mercury	47637-04-30 04:19 G	19120236.62	19120236.68	19120236.73	0.2673	0.2479
Mercury	47640-10-30 06:14 G	19121515.66	19121515.76	19121515.87	0.2658	0.0130

Venus	47649-07-23 01:12 G	19124703.39	19124703.55	19124703.70	0.2690	0.0661
Mercury	47650-05-03 13:41 G	19124987.91	19124988.07	19124988.23	0.2674	0.0542
Mercury	47653-11-01 23:31 G	19126266.38	19126266.48	19126266.57	0.2657	0.1311
Mercury	47660-10-26 00:43 G	19128816.47	19128816.53	19128816.60	0.2660	0.2091
Mercury	47666-11-04 16:19 G	19131017.15	19131017.18	19131017.22	0.2656	0.2501
Mercury	47673-10-28 18:00 G	19133567.15	19133567.25	19133567.35	0.2659	0.0871
Mercury	47683-05-01 11:17 G	19137038.85	19137038.97	19137039.08	0.2673	0.1934
Mercury	47686-10-31 11:02 G	19138317.85	19138317.96	19138318.07	0.2658	0.0343
Mercury	47696-05-03 20:53 G	19141790.22	19141790.37	19141790.52	0.2674	0.1091
Mercury	47699-11-03 04:05 G	19143068.59	19143068.67	19143068.76	0.2657	0.1543
Mercury	47706-10-28 05:31 G	19145618.65	19145618.73	19145618.81	0.2660	0.1850
Mercury	47719-10-30 22:34 G	19150369.34	19150369.44	19150369.55	0.2659	0.0642
Mercury	47729-05-02 18:14 G	19153841.12	19153841.26	19153841.40	0.2673	0.1393
Mercury	47732-11-01 15:50 G	19155120.05	19155120.16	19155120.26	0.2658	0.0575
Mercury	47742-05-06 03:50 G	19158592.53	19158592.66	19158592.79	0.2674	0.1644
Mercury	47745-11-04 08:53 G	19159870.79	19159870.87	19159870.95	0.2657	0.1773
Mercury	47752-10-28 10:19 G	19162420.84	19162420.93	19162421.01	0.2660	0.1615
Venus	47763-01-24 00:58 G	19166160.41	19166160.54	19166160.67	0.2641	0.1518
Mercury	47765-10-31 03:22 G	19167171.54	19167171.64	19167171.75	0.2659	0.0402
Venus	47771-01-21 17:17 G	19169080.11	19169080.22	19169080.34	0.2641	0.1817
Mercury	47775-05-04 00:58 G	19170643.39	19170643.54	19170643.70	0.2673	0.0858
Mercury	47778-11-02 20:24 G	19171922.25	19171922.35	19171922.46	0.2658	0.0817
Mercury	47785-10-26 21:50 G	19174472.39	19174472.41	19174472.43	0.2661	0.2594
Mercury	47788-05-06 10:48 G	19175394.86	19175394.95	19175395.05	0.2674	0.2189
Mercury	47791-11-05 13:26 G	19176673.00	19176673.06	19176673.13	0.2657	0.2005
Mercury	47798-10-29 15:07 G	19179223.03	19179223.13	19179223.22	0.2660	0.1379
Mercury	47811-11-02 08:10 G	19183973.73	19183973.84	19183973.95	0.2658	0.0162
Mercury	47821-05-05 08:10 G	19187445.68	19187445.84	19187446.00	0.2673	0.0307
Mercury	47824-11-04 01:12 G	19188724.45	19188724.55	19188724.65	0.2657	0.1040
Mercury	47831-10-29 02:38 G	19191274.56	19191274.61	19191274.65	0.2660	0.2359

Mercury	47837-11-06 18:14 G	19193475.20	19193475.26	19193475.32	0.2657	0.2233
Mercury	47844-10-30 19:41 G	19196025.23	19196025.32	19196025.42	0.2659	0.1140
Mercury	47857-11-02 12:58 G	19200775.93	19200776.04	19200776.15	0.2658	0.0086
Mercury	47867-05-06 15:07 G	19204247.97	19204248.13	19204248.29	0.2673	0.0239
Mercury	47870-11-05 06:00 G	19205526.65	19205526.75	19205526.84	0.2657	0.1274
Mercury	47877-10-29 07:26 G	19208076.74	19208076.81	19208076.87	0.2660	0.2119
Mercury	47883-11-07 23:02 G	19210277.42	19210277.46	19210277.49	0.2656	0.2465
Mercury	47890-11-01 00:29 G	19212827.42	19212827.52	19212827.62	0.2659	0.0900
Venus	47892-07-25 00:43 G	19213459.37	19213459.53	19213459.69	0.2691	0.0457
Mercury	47900-05-04 12:29 G	19216298.93	19216299.02	19216299.11	0.2672	0.2230
Mercury	47903-11-04 17:31 G	19217578.13	19217578.23	19217578.34	0.2658	0.0325
Mercury	47913-05-07 22:05 G	19221050.26	19221050.42	19221050.58	0.2674	0.0781
Mercury	47916-11-06 10:48 G	19222328.86	19222328.95	19222329.03	0.2657	0.1510
Mercury	47923-10-31 12:00 G	19224878.93	19224879.00	19224879.08	0.2660	0.1883
Mercury	47936-11-02 05:17 G	19229629.62	19229629.72	19229629.82	0.2659	0.0663
Mercury	47946-05-05 19:26 G	19233101.18	19233101.31	19233101.43	0.2673	0.1691
Mercury	47949-11-04 22:19 G	19234380.33	19234380.43	19234380.54	0.2658	0.0544
Mercury	47959-05-09 05:02 G	19237852.57	19237852.71	19237852.85	0.2674	0.1322
Mercury	47962-11-07 15:22 G	19239131.06	19239131.14	19239131.22	0.2657	0.1740
Mercury	47969-10-31 16:48 G	19241681.12	19241681.20	19241681.29	0.2660	0.1642
Mercury	47982-11-03 10:05 G	19246431.81	19246431.92	19246432.02	0.2659	0.0435
Mercury	47992-05-06 02:24 G	19249903.46	19249903.60	19249903.75	0.2673	0.1145
Mercury	47995-11-06 03:07 G	19251182.53	19251182.63	19251182.73	0.2658	0.0776

49TH MILLENNIUM CE

This is a list of transits visible from Earth in the 49th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	48002-10-30 04:19	G	19253732.67	19253732.68	19253732.69	0.2661	0.2628	
Mercury	48005-05-09 12:00	G	19254654.89	19254655.00	19254655.12	0.2674	0.1876	
Venus	48006-01-26 03:22	G	19254916.51	19254916.64	19254916.76	0.2641	0.1600	
Mercury	48008-11-07 20:10	G	19255933.27	19255933.34	19255933.41	0.2657	0.1970	
Venus	48014-01-23 19:55	G	19257836.21	19257836.33	19257836.45	0.2641	0.1709	
Mercury	48015-11-01 21:36	G	19258483.31	19258483.40	19258483.49	0.2660	0.1407	
Mercury	48028-11-03 14:38	G	19263234.01	19263234.11	19263234.22	0.2659	0.0212	
Mercury	48038-05-07 09:22	G	19266705.74	19266705.89	19266706.05	0.2673	0.0604	
Mercury	48041-11-06 07:55	G	19267984.73	19267984.83	19267984.92	0.2658	0.1014	
Mercury	48048-10-30 09:07	G	19270534.84	19270534.88	19270534.93	0.2661	0.2390	
Mercury	48051-05-10 19:12	G	19271457.23	19271457.30	19271457.37	0.2674	0.2428	
Mercury	48054-11-09 00:58	G	19272735.48	19272735.54	19272735.60	0.2657	0.2204	
Mercury	48061-11-02 02:24	G	19275285.50	19275285.60	19275285.69	0.2660	0.1172	
Mercury	48074-11-04 19:26	G	19280036.20	19280036.31	19280036.42	0.2659	0.0040	
Mercury	48084-05-07 16:34	G	19283508.02	19283508.19	19283508.35	0.2673	0.0098	
Mercury	48087-11-07 12:29	G	19284786.93	19284787.02	19284787.12	0.2658	0.1242	
Mercury	48094-10-31 13:55	G	19287337.02	19287337.08	19287337.14	0.2661	0.2152	
Mercury	48100-11-10 05:31	G	19289537.69	19289537.73	19289537.78	0.2657	0.2435	
Mercury	48107-11-04 06:58	G	19292087.69	19292087.79	19292087.89	0.2660	0.0941	
Mercury	48117-05-06 13:55	G	19295559.03	19295559.08	19295559.13	0.2672	0.2512	
Mercury	48120-11-06 00:14	G	19296838.40	19296838.51	19296838.61	0.2659	0.0283	
Mercury	48130-05-09 23:17	G	19300310.31	19300310.47	19300310.63	0.2673	0.0479	
Mercury	48133-11-08 17:17	G	19301589.13	19301589.22	19301589.31	0.2657	0.1473	
Venus	48135-07-28 00:43	G	19302215.37	19302215.53	19302215.69	0.2691	0.0298	
Mercury	48140-11-01 18:43	G	19304139.20	19304139.28	19304139.35	0.2661	0.1912	
Mercury	48153-11-04 11:46	G	19308889.89	19308889.99	19308890.10	0.2659	0.0699	

Mercury	48163-05-07 20:53 G	19312361.26	19312361.37	19312361.48	0.2672	0.1972
Mercury	48166-11-07 04:48 G	19313640.60	19313640.70	19313640.81	0.2658	0.0516
Mercury	48176-05-10 06:29 G	19317112.61	19317112.77	19317112.92	0.2673	0.1022
Mercury	48179-11-09 22:05 G	19318391.34	19318391.42	19318391.50	0.2657	0.1704
Mercury	48186-11-02 23:17 G	19320941.39	19320941.47	19320941.56	0.2660	0.1680
Mercury	48199-11-05 16:34 G	19325692.08	19325692.19	19325692.30	0.2659	0.0461
Mercury	48209-05-09 03:50 G	19329163.52	19329163.66	19329163.79	0.2672	0.1444
Mercury	48212-11-08 09:36 G	19330442.80	19330442.90	19330443.01	0.2658	0.0745
Mercury	48222-05-12 13:26 G	19333914.93	19333915.06	19333915.19	0.2674	0.1565
Mercury	48225-11-11 02:38 G	19335193.54	19335193.61	19335193.69	0.2657	0.1939
Mercury	48232-11-04 04:05 G	19337743.58	19337743.67	19337743.76	0.2660	0.1438
Mercury	48245-11-06 21:22 G	19342494.28	19342494.39	19342494.49	0.2659	0.0246
Venus	48249-01-28 06:00 G	19343672.63	19343672.75	19343672.87	0.2641	0.1700
Mercury	48255-05-10 10:48 G	19345965.79	19345965.95	19345966.10	0.2672	0.0907
Venus	48257-01-25 22:34 G	19346592.31	19346592.44	19346592.56	0.2641	0.1614
Mercury	48258-11-09 14:24 G	19347245.00	19347245.10	19347245.20	0.2658	0.0976
Mercury	48265-11-02 15:36 G	19349795.11	19349795.15	19349795.19	0.2661	0.2423
Mercury	48268-05-12 20:24 G	19350717.25	19350717.35	19350717.45	0.2674	0.2102
Mercury	48271-11-12 07:26 G	19351995.75	19351995.81	19351995.87	0.2657	0.2170
Mercury	48278-11-05 08:53 G	19354545.77	19354545.87	19354545.96	0.2660	0.1206
Mercury	48291-11-08 01:55 G	19359296.48	19359296.58	19359296.69	0.2659	0.0096
Mercury	48301-05-11 17:46 G	19362768.07	19362768.24	19362768.40	0.2673	0.0373
Mercury	48304-11-10 19:12 G	19364047.20	19364047.30	19364047.39	0.2658	0.1210
Mercury	48311-11-04 20:24 G	19366597.29	19366597.35	19366597.41	0.2661	0.2184
Mercury	48314-05-15 03:22 G	19367519.62	19367519.64	19367519.66	0.2674	0.2647
Mercury	48317-11-13 12:14 G	19368797.97	19368798.01	19368798.05	0.2657	0.2398
Mercury	48324-11-06 13:41 G	19371347.97	19371348.07	19371348.17	0.2660	0.0972
Mercury	48337-11-09 06:43 G	19376098.67	19376098.78	19376098.89	0.2659	0.0242
Mercury	48347-05-13 00:43 G	19379570.37	19379570.53	19379570.69	0.2673	0.0176
Mercury	48350-11-11 23:46 G	19380849.41	19380849.49	19380849.58	0.2658	0.1444

Mercury	48357-11-05 01:12 G	19383399.48	19383399.55	19383399.62	0.2661	0.1950
Mercury	48363-11-14 17:02 G	19385600.19	19385600.21	19385600.22	0.2657	0.2630
Mercury	48370-11-07 18:14 G	19388150.16	19388150.26	19388150.37	0.2660	0.0738
Venus	48378-07-30 00:14 G	19390971.35	19390971.51	19390971.66	0.2691	0.0123
Mercury	48380-05-09 22:05 G	19391621.34	19391621.42	19391621.51	0.2672	0.2266
Mercury	48383-11-10 11:31 G	19392900.87	19392900.98	19392901.09	0.2659	0.0477
Mercury	48393-05-13 07:41 G	19396372.66	19396372.82	19396372.98	0.2673	0.0719
Mercury	48396-11-12 04:34 G	19397651.61	19397651.69	19397651.77	0.2658	0.1671
Mercury	48403-11-06 06:00 G	19400201.66	19400201.75	19400201.83	0.2661	0.1714
Mercury	48416-11-07 23:02 G	19404952.36	19404952.46	19404952.57	0.2660	0.0499
Mercury	48426-05-11 05:17 G	19408423.59	19408423.72	19408423.84	0.2672	0.1728
Mercury	48429-11-10 16:19 G	19409703.07	19409703.18	19409703.28	0.2659	0.0710
Mercury	48439-05-14 14:38 G	19413174.97	19413175.11	19413175.25	0.2673	0.1254
Mercury	48442-11-13 09:22 G	19414453.81	19414453.89	19414453.96	0.2658	0.1903
Mercury	48449-11-06 10:34 G	19417003.85	19417003.94	19417004.03	0.2661	0.1477
Mercury	48462-11-09 03:50 G	19421754.55	19421754.66	19421754.77	0.2660	0.0263
Mercury	48472-05-11 12:00 G	19425225.86	19425226.00	19425226.15	0.2672	0.1203
Mercury	48475-11-11 20:53 G	19426505.27	19426505.37	19426505.47	0.2658	0.0946
Mercury	48482-11-04 22:05 G	19429055.39	19429055.42	19429055.46	0.2661	0.2457
Mercury	48485-05-14 21:36 G	19429977.28	19429977.40	19429977.52	0.2673	0.1798
Mercury	48488-11-13 13:55 G	19431256.02	19431256.08	19431256.15	0.2657	0.2133
Venus	48492-01-30 08:24 G	19432428.73	19432428.85	19432428.96	0.2641	0.1794
Mercury	48495-11-07 15:22 G	19433806.05	19433806.14	19433806.24	0.2660	0.1235
Venus	48500-01-28 00:58 G	19435348.41	19435348.54	19435348.67	0.2641	0.1508
Mercury	48508-11-10 08:38 G	19438556.75	19438556.86	19438556.97	0.2659	0.0052
Mercury	48518-05-13 18:58 G	19442028.14	19442028.29	19442028.45	0.2672	0.0666
Mercury	48521-11-13 01:41 G	19443307.47	19443307.57	19443307.67	0.2658	0.1171
Mercury	48528-11-06 02:53 G	19445857.56	19445857.62	19445857.68	0.2661	0.2219
Mercury	48531-05-17 04:34 G	19446779.62	19446779.69	19446779.77	0.2673	0.2336
Mercury	48534-11-15 18:43 G	19448058.24	19448058.28	19448058.33	0.2657	0.2360

Mercury	48541-11-08 20:10 G	19450608.24	19450608.34	19450608.44	0.2660	0.1001
Mercury	48554-11-11 13:26 G	19455358.95	19455359.06	19455359.16	0.2659	0.0227
Mercury	48564-05-14 01:55 G	19458830.42	19458830.58	19458830.75	0.2672	0.0141
Mercury	48567-11-14 06:29 G	19460109.68	19460109.77	19460109.86	0.2658	0.1406
Mercury	48574-11-07 07:41 G	19462659.75	19462659.82	19462659.89	0.2661	0.1983
Mercury	48580-11-15 23:31 G	19464860.46	19464860.48	19464860.50	0.2657	0.2589
Mercury	48587-11-10 00:58 G	19467410.44	19467410.54	19467410.64	0.2660	0.0764
Mercury	48597-05-11 23:46 G	19470881.44	19470881.49	19470881.53	0.2671	0.2541
Mercury	48600-11-12 18:00 G	19472161.15	19472161.25	19472161.36	0.2659	0.0446
Mercury	48610-05-16 09:07 G	19475632.71	19475632.88	19475633.04	0.2673	0.0414
Mercury	48613-11-15 11:17 G	19476911.88	19476911.97	19476912.05	0.2658	0.1641
Mercury	48620-11-08 12:29 G	19479461.94	19479462.02	19479462.10	0.2661	0.1745
Venus	48621-08-01 00:00 G	19479727.34	19479727.50	19479727.66	0.2691	0.0087
Mercury	48633-11-11 05:46 G	19484212.63	19484212.74	19484212.84	0.2660	0.0540
Mercury	48643-05-14 06:43 G	19487683.67	19487683.78	19487683.88	0.2671	0.2017
Mercury	48646-11-13 22:48 G	19488963.35	19488963.45	19488963.55	0.2659	0.0675
Mercury	48656-05-16 16:05 G	19492435.01	19492435.17	19492435.32	0.2673	0.0953
Mercury	48659-11-16 15:50 G	19493714.09	19493714.16	19493714.24	0.2658	0.1866
Mercury	48666-11-09 17:17 G	19496264.13	19496264.22	19496264.31	0.2661	0.1508
Mercury	48679-11-12 10:19 G	19501014.83	19501014.93	19501015.04	0.2660	0.0304
Mercury	48689-05-14 13:41 G	19504485.93	19504486.07	19504486.20	0.2671	0.1478
Mercury	48692-11-14 03:36 G	19505765.55	19505765.65	19505765.75	0.2659	0.0907
Mercury	48699-11-08 04:48 G	19508315.66	19508315.70	19508315.73	0.2662	0.2494
Mercury	48702-05-18 23:02 G	19509237.32	19509237.46	19509237.59	0.2673	0.1491
Mercury	48705-11-17 20:38 G	19510516.30	19510516.36	19510516.42	0.2658	0.2095
Mercury	48712-11-10 22:05 G	19513066.32	19513066.42	19513066.51	0.2661	0.1277
Mercury	48725-11-13 15:07 G	19517817.02	19517817.13	19517817.24	0.2660	0.0067
Venus	48735-02-02 11:02 G	19521184.85	19521184.96	19521185.07	0.2640	0.1907
Mercury	48735-05-16 20:24 G	19521288.20	19521288.35	19521288.51	0.2672	0.0956
Mercury	48738-11-16 08:10 G	19522567.75	19522567.84	19522567.94	0.2659	0.1140

Venus	48743-01-31 03:36 G	19524104.52	19524104.65	19524104.79	0.2640	0.1387
Mercury	48745-11-09 09:22 G	19525117.84	19525117.89	19525117.95	0.2662	0.2257
Mercury	48748-05-19 06:00 G	19526039.65	19526039.75	19526039.85	0.2673	0.2034
Mercury	48751-11-19 01:26 G	19527318.51	19527318.56	19527318.61	0.2658	0.2325
Mercury	48758-11-12 02:38 G	19529868.51	19529868.61	19529868.71	0.2661	0.1037
Mercury	48771-11-14 19:55 G	19534619.22	19534619.33	19534619.44	0.2660	0.0179
Mercury	48781-05-17 03:36 G	19538090.48	19538090.65	19538090.81	0.2672	0.0422
Mercury	48784-11-16 12:58 G	19539369.95	19539370.04	19539370.13	0.2659	0.1367
Mercury	48791-11-10 14:10 G	19541920.02	19541920.09	19541920.16	0.2662	0.2015
Mercury	48794-05-20 12:58 G	19542842.00	19542842.04	19542842.08	0.2673	0.2564
Mercury	48797-11-19 06:00 G	19544120.73	19544120.75	19544120.78	0.2658	0.2559
Mercury	48804-11-12 07:26 G	19546670.71	19546670.81	19546670.91	0.2660	0.0801
Mercury	48817-11-15 00:29 G	19551421.42	19551421.52	19551421.63	0.2659	0.0421
Mercury	48827-05-18 10:19 G	19554892.77	19554892.93	19554893.09	0.2672	0.0111
Mercury	48830-11-17 17:46 G	19556172.15	19556172.24	19556172.32	0.2658	0.1599
Mercury	48837-11-10 18:58 G	19558722.21	19558722.29	19558722.37	0.2661	0.1777
Mercury	48850-11-13 12:14 G	19563472.90	19563473.01	19563473.11	0.2660	0.0564
Mercury	48860-05-15 08:10 G	19566943.76	19566943.84	19566943.92	0.2671	0.2295
Mercury	48863-11-16 05:17 G	19568223.62	19568223.72	19568223.83	0.2659	0.0640
Venus	48864-08-01 23:31 G	19568483.32	19568483.48	19568483.64	0.2691	0.0270
Mercury	48873-05-18 17:17 G	19571695.06	19571695.22	19571695.38	0.2672	0.0644
Mercury	48876-11-17 22:34 G	19572974.36	19572974.44	19572974.51	0.2658	0.1829
Mercury	48883-11-11 23:46 G	19575524.40	19575524.49	19575524.58	0.2661	0.1542
Mercury	48896-11-13 17:02 G	19580275.10	19580275.21	19580275.31	0.2660	0.0342
Mercury	48906-05-17 14:53 G	19583746.00	19583746.12	19583746.24	0.2671	0.1774
Mercury	48909-11-17 10:05 G	19585025.82	19585025.92	19585026.02	0.2659	0.0873
Mercury	48916-11-10 11:17 G	19587575.94	19587575.97	19587576.00	0.2662	0.2527
Mercury	48919-05-21 00:14 G	19588497.37	19588497.51	19588497.66	0.2673	0.1183
Mercury	48922-11-20 03:07 G	19589776.57	19589776.63	19589776.70	0.2658	0.2064
Mercury	48929-11-13 04:34 G	19592326.59	19592326.69	19592326.78	0.2661	0.1309

Mercury	48942-11-15 21:36 G	19597077.30	19597077.40	19597077.51	0.2660	0.0122
Mercury	48952-05-17 22:05 G	19600548.27	19600548.42	19600548.56	0.2671	0.1234
Mercury	48955-11-18 14:53 G	19601828.02	19601828.12	19601828.22	0.2659	0.1100
Mercury	48962-11-11 16:05 G	19604378.11	19604378.17	19604378.22	0.2662	0.2289
Mercury	48965-05-21 07:12 G	19605299.68	19605299.80	19605299.93	0.2673	0.1718
Mercury	48968-11-20 07:55 G	19606578.78	19606578.83	19606578.88	0.2658	0.2293
Mercury	48975-11-14 09:07 G	19609128.79	19609128.88	19609128.98	0.2661	0.1076
Venus	48978-02-03 13:26 G	19609940.96	19609941.06	19609941.16	0.2640	0.2002
Venus	48986-02-01 06:14 G	19612860.62	19612860.76	19612860.90	0.2640	0.1282
Mercury	48988-11-16 02:24 G	19613879.49	19613879.60	19613879.71	0.2660	0.0137
Mercury	48998-05-19 04:48 G	19617350.55	19617350.70	19617350.86	0.2671	0.0716

50TH MILLENNIUM CE

This is a list of transits visible from Earth in the 50th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	49001-11-19 19:41 G	19618630.22	19618630.32	19618630.41	0.2659	0.1336		
Mercury	49008-11-12 20:53 G	19621180.30	19621180.37	19621180.43	0.2662	0.2054		
Mercury	49011-05-23 14:24 G	19622102.01	19622102.10	19622102.18	0.2673	0.2260		
Mercury	49014-11-22 12:43 G	19623381.00	19623381.03	19623381.06	0.2658	0.2516		
Mercury	49021-11-15 13:55 G	19625930.98	19625931.08	19625931.18	0.2661	0.0838		
Mercury	49034-11-18 07:12 G	19630681.69	19630681.80	19630681.91	0.2660	0.0369		
Mercury	49044-05-20 11:46 G	19634152.83	19634152.99	19634153.16	0.2672	0.0183		
Mercury	49047-11-21 00:14 G	19635432.43	19635432.51	19635432.60	0.2659	0.1563		

Mercury	49054-11-14 01:26 G	19637982.48	19637982.56	19637982.64	0.2662	0.1817
Mercury	49067-11-16 18:43 G	19642733.18	19642733.28	19642733.39	0.2661	0.0603
Mercury	49077-05-18 09:36 G	19646203.86	19646203.90	19646203.94	0.2670	0.2574
Mercury	49080-11-18 12:00 G	19647483.89	19647484.00	19647484.10	0.2660	0.0603
Mercury	49090-05-21 18:43 G	19650955.12	19650955.28	19650955.44	0.2672	0.0351
Mercury	49093-11-21 05:02 G	19652234.63	19652234.71	19652234.79	0.2659	0.1793
Mercury	49100-11-15 06:14 G	19654784.67	19654784.76	19654784.85	0.2662	0.1578
Venus	49107-08-05 23:31 G	19657239.32	19657239.48	19657239.64	0.2692	0.0417
Mercury	49113-11-17 23:31 G	19659535.37	19659535.48	19659535.59	0.2661	0.0367
Mercury	49123-05-20 16:34 G	19663006.08	19663006.19	19663006.29	0.2671	0.2052
Mercury	49126-11-20 16:48 G	19664286.09	19664286.20	19664286.30	0.2660	0.0839
Mercury	49133-11-13 17:46 G	19666836.21	19666836.24	19666836.27	0.2662	0.2562
Mercury	49136-05-23 01:41 G	19667757.42	19667757.57	19667757.73	0.2672	0.0881
Mercury	49139-11-23 09:50 G	19669036.84	19669036.91	19669036.98	0.2659	0.2023
Mercury	49146-11-16 11:02 G	19671586.87	19671586.96	19671587.05	0.2661	0.1342
Mercury	49159-11-19 04:19 G	19676337.57	19676337.68	19676337.79	0.2660	0.0141
Mercury	49169-05-20 23:17 G	19679808.34	19679808.47	19679808.60	0.2671	0.1536
Mercury	49172-11-20 21:22 G	19681088.29	19681088.39	19681088.49	0.2659	0.1068
Mercury	49179-11-14 22:34 G	19683638.39	19683638.44	19683638.49	0.2662	0.2324
Mercury	49182-05-24 08:38 G	19684559.72	19684559.86	19684560.00	0.2672	0.1408
Mercury	49185-11-23 14:24 G	19685839.05	19685839.10	19685839.16	0.2658	0.2254
Mercury	49192-11-16 15:50 G	19688389.06	19688389.16	19688389.26	0.2661	0.1107
Mercury	49205-11-19 09:07 G	19693139.77	19693139.88	19693139.98	0.2660	0.0139
Mercury	49215-05-22 06:14 G	19696610.61	19696610.76	19696610.91	0.2671	0.1003
Mercury	49218-11-22 02:10 G	19697890.50	19697890.59	19697890.68	0.2659	0.1295
Venus	49221-02-05 16:19 G	19698697.09	19698697.18	19698697.28	0.2640	0.2143
Mercury	49225-11-15 03:07 G	19700440.57	19700440.63	19700440.70	0.2662	0.2093
Mercury	49228-05-24 15:36 G	19701362.04	19701362.15	19701362.26	0.2672	0.1940
Venus	49229-02-03 08:53 G	19701616.73	19701616.87	19701617.02	0.2640	0.1153
Mercury	49231-11-24 19:12 G	19702641.27	19702641.30	19702641.34	0.2658	0.2482

Mercury	49238-11-17 20:38 G	19705191.25	19705191.36	19705191.46	0.2661	0.0877
Mercury	49251-11-20 13:41 G	19709941.97	19709942.07	19709942.18	0.2660	0.0346
Mercury	49261-05-22 13:12 G	19713412.89	19713413.05	19713413.21	0.2671	0.0478
Mercury	49264-11-22 06:58 G	19714692.70	19714692.79	19714692.87	0.2659	0.1529
Mercury	49271-11-16 07:55 G	19717242.76	19717242.83	19717242.91	0.2662	0.1855
Mercury	49274-05-25 22:34 G	19718164.39	19718164.44	19718164.50	0.2673	0.2485
Mercury	49284-11-18 01:12 G	19721993.45	19721993.55	19721993.66	0.2661	0.0645
Mercury	49297-11-20 18:29 G	19726744.16	19726744.27	19726744.38	0.2660	0.0563
Mercury	49307-05-24 20:10 G	19730215.18	19730215.34	19730215.51	0.2671	0.0095
Mercury	49310-11-24 11:31 G	19731494.91	19731494.98	19731495.06	0.2659	0.1759
Mercury	49317-11-17 12:43 G	19734044.95	19734045.03	19734045.12	0.2662	0.1618
Mercury	49330-11-20 06:00 G	19738795.65	19738795.75	19738795.86	0.2661	0.0409
Mercury	49340-05-21 18:00 G	19742266.17	19742266.25	19742266.33	0.2670	0.2329
Mercury	49343-11-22 23:17 G	19743546.36	19743546.47	19743546.57	0.2660	0.0798
Venus	49350-08-06 23:02 G	19745995.31	19745995.46	19745995.62	0.2692	0.0617
Mercury	49350-11-16 00:14 G	19746096.49	19746096.51	19746096.53	0.2663	0.2599
Mercury	49353-05-25 03:07 G	19747017.47	19747017.63	19747017.79	0.2672	0.0577
Mercury	49356-11-24 16:19 G	19748297.11	19748297.18	19748297.25	0.2659	0.1985
Mercury	49363-11-18 17:31 G	19750847.14	19750847.23	19750847.32	0.2662	0.1380
Mercury	49376-11-20 10:48 G	19755597.84	19755597.95	19755598.06	0.2661	0.0171
Mercury	49386-05-23 00:58 G	19759068.42	19759068.54	19759068.66	0.2670	0.1805
Mercury	49389-11-23 04:05 G	19760348.57	19760348.67	19760348.76	0.2660	0.1033
Mercury	49396-11-16 05:02 G	19762898.66	19762898.71	19762898.76	0.2663	0.2362
Mercury	49399-05-26 10:05 G	19763819.77	19763819.92	19763820.07	0.2672	0.1113
Mercury	49402-11-26 21:07 G	19765099.32	19765099.38	19765099.44	0.2659	0.2211
Mercury	49409-11-19 22:19 G	19767649.33	19767649.43	19767649.53	0.2662	0.1144
Mercury	49422-11-22 15:36 G	19772400.04	19772400.15	19772400.26	0.2661	0.0079
Mercury	49432-05-24 07:55 G	19775870.68	19775870.83	19775870.97	0.2671	0.1290
Mercury	49435-11-25 08:38 G	19777150.77	19777150.86	19777150.96	0.2660	0.1259
Mercury	49442-11-18 09:50 G	19779700.85	19779700.91	19779700.97	0.2663	0.2124

Mercury	49445-05-27 17:02 G	19780622.08	19780622.21	19780622.34	0.2672	0.1643
Mercury	49448-11-27 01:55 G	19781901.54	19781901.58	19781901.62	0.2658	0.2441
Mercury	49455-11-21 03:07 G	19784451.53	19784451.63	19784451.73	0.2662	0.0908
Venus	49464-02-08 18:43 G	19787453.20	19787453.28	19787453.37	0.2640	0.2227
Mercury	49468-11-22 20:10 G	19789202.24	19789202.34	19789202.45	0.2660	0.0318
Venus	49472-02-06 11:31 G	19790372.84	19790372.98	19790373.13	0.2640	0.1040
Mercury	49478-05-25 14:38 G	19792672.96	19792673.11	19792673.27	0.2671	0.0769
Mercury	49481-11-25 13:26 G	19793952.97	19793953.06	19793953.15	0.2659	0.1487
Mercury	49488-11-18 14:38 G	19796503.03	19796503.11	19796503.18	0.2662	0.1891
Mercury	49491-05-29 00:00 G	19797424.41	19797424.50	19797424.59	0.2672	0.2167
Mercury	49501-11-22 07:55 G	19801253.72	19801253.83	19801253.93	0.2661	0.0681
Mercury	49514-11-25 00:58 G	19806004.44	19806004.54	19806004.65	0.2660	0.0533
Mercury	49524-05-26 21:36 G	19809475.24	19809475.40	19809475.56	0.2671	0.0251
Mercury	49527-11-27 18:14 G	19810755.18	19810755.26	19810755.34	0.2659	0.1718
Mercury	49534-11-20 19:26 G	19813305.22	19813305.31	19813305.39	0.2662	0.1655
Mercury	49547-11-23 12:29 G	19818055.92	19818056.02	19818056.13	0.2661	0.0451
Mercury	49557-05-24 19:41 G	19821526.29	19821526.32	19821526.35	0.2670	0.2598
Mercury	49560-11-25 05:46 G	19822806.64	19822806.74	19822806.84	0.2660	0.0758
Mercury	49567-11-19 06:43 G	19825356.77	19825356.78	19825356.79	0.2663	0.2639
Mercury	49570-05-28 04:34 G	19826277.53	19826277.69	19826277.85	0.2671	0.0286
Mercury	49573-11-27 23:02 G	19827557.39	19827557.46	19827557.53	0.2659	0.1945
Mercury	49580-11-21 00:00 G	19830107.41	19830107.50	19830107.59	0.2662	0.1422
Venus	49593-08-08 22:48 G	19834751.30	19834751.45	19834751.60	0.2692	0.0778
Mercury	49593-11-23 17:17 G	19834858.11	19834858.22	19834858.33	0.2661	0.0213
Mercury	49603-05-26 02:24 G	19838328.50	19838328.60	19838328.70	0.2670	0.2085
Mercury	49606-11-26 10:34 G	19839608.84	19839608.94	19839609.04	0.2660	0.0988
Mercury	49613-11-19 11:31 G	19842158.94	19842158.98	19842159.02	0.2663	0.2404
Mercury	49616-05-28 11:31 G	19843079.83	19843079.98	19843080.14	0.2671	0.0814
Mercury	49619-11-29 03:36 G	19844359.59	19844359.65	19844359.71	0.2659	0.2176
Mercury	49626-11-22 04:48 G	19846909.60	19846909.70	19846909.80	0.2662	0.1183

Mercury	49639-11-24 22:05 G	19851660.31	19851660.42	19851660.53	0.2661	0.0026
Mercury	49649-05-26 09:22 G	19855130.76	19855130.89	19855131.02	0.2670	0.1569
Mercury	49652-11-26 15:22 G	19856411.04	19856411.14	19856411.23	0.2660	0.1219
Mercury	49659-11-20 16:19 G	19858961.12	19858961.18	19858961.24	0.2663	0.2165
Mercury	49662-05-29 18:29 G	19859882.13	19859882.27	19859882.41	0.2671	0.1338
Mercury	49665-11-29 08:24 G	19861161.81	19861161.85	19861161.89	0.2659	0.2401
Mercury	49672-11-22 09:36 G	19863711.80	19863711.90	19863712.00	0.2662	0.0951
Mercury	49685-11-25 02:53 G	19868462.51	19868462.62	19868462.73	0.2661	0.0256
Mercury	49695-05-27 16:19 G	19871933.03	19871933.18	19871933.32	0.2670	0.1056
Mercury	49698-11-27 19:55 G	19873213.24	19873213.33	19873213.42	0.2660	0.1450
Mercury	49705-11-21 21:07 G	19875763.30	19875763.38	19875763.45	0.2663	0.1926
Venus	49707-02-10 21:50 G	19876209.34	19876209.41	19876209.47	0.2640	0.2373
Mercury	49708-05-31 01:26 G	19876684.44	19876684.56	19876684.67	0.2672	0.1859
Mercury	49711-12-01 13:12 G	19877964.03	19877964.05	19877964.06	0.2659	0.2627
Venus	49715-02-08 14:24 G	19879128.95	19879129.10	19879129.25	0.2640	0.0915
Mercury	49718-11-24 14:24 G	19880513.99	19880514.10	19880514.20	0.2662	0.0717
Mercury	49731-11-27 07:41 G	19885264.71	19885264.82	19885264.92	0.2661	0.0492
Mercury	49741-05-28 23:17 G	19888735.31	19888735.47	19888735.62	0.2670	0.0538
Mercury	49744-11-29 00:43 G	19890015.45	19890015.53	19890015.61	0.2660	0.1674
Mercury	49751-11-23 01:55 G	19892565.49	19892565.58	19892565.66	0.2663	0.1697
Mercury	49754-06-01 08:24 G	19893486.78	19893486.85	19893486.92	0.2672	0.2388
Mercury	49764-11-24 19:12 G	19897316.19	19897316.30	19897316.40	0.2662	0.0488
Mercury	49777-11-27 12:14 G	19902066.91	19902067.01	19902067.12	0.2661	0.0727
Mercury	49787-05-30 06:00 G	19905537.59	19905537.75	19905537.91	0.2671	0.0033
Mercury	49790-11-30 05:31 G	19906817.66	19906817.73	19906817.80	0.2660	0.1903
Mercury	49797-11-23 06:29 G	19909367.68	19909367.77	19909367.86	0.2663	0.1461
Mercury	49810-11-26 23:46 G	19914118.39	19914118.49	19914118.60	0.2661	0.0274
Mercury	49820-05-28 04:05 G	19917588.59	19917588.67	19917588.74	0.2670	0.2369
Mercury	49823-11-29 17:02 G	19918869.11	19918869.21	19918869.31	0.2660	0.0948
Mercury	49830-11-22 18:00 G	19921419.21	19921419.25	19921419.29	0.2663	0.2441

Mercury	49833-05-31 12:58 G	19922339.88	19922340.04	19922340.20	0.2671	0.0504
Venus	49836-08-10 22:19 G	19923507.28	19923507.43	19923507.58	0.2692	0.0976
Mercury	49836-12-01 10:19 G	19923619.86	19923619.93	19923619.99	0.2659	0.2134
Mercury	49843-11-25 11:17 G	19926169.88	19926169.97	19926170.07	0.2662	0.1227
Mercury	49856-11-27 04:34 G	19930920.59	19930920.69	19930920.80	0.2661	0.0080
Mercury	49866-05-29 10:48 G	19934390.84	19934390.95	19934391.07	0.2670	0.1852
Mercury	49869-11-29 21:50 G	19935671.31	19935671.41	19935671.51	0.2660	0.1178
Mercury	49876-11-22 22:48 G	19938221.39	19938221.45	19938221.51	0.2663	0.2206
Mercury	49879-06-01 19:55 G	19939142.18	19939142.33	19939142.48	0.2671	0.1026
Mercury	49882-12-02 14:53 G	19940422.08	19940422.12	19940422.17	0.2659	0.2362
Mercury	49889-11-25 16:05 G	19942972.07	19942972.17	19942972.27	0.2662	0.0989
Mercury	49902-11-29 09:22 G	19947722.78	19947722.89	19947723.00	0.2661	0.0214
Mercury	49912-05-30 17:46 G	19951193.10	19951193.24	19951193.38	0.2670	0.1334
Mercury	49915-12-02 02:38 G	19952473.52	19952473.61	19952473.70	0.2660	0.1407
Mercury	49922-11-25 03:36 G	19955023.58	19955023.65	19955023.72	0.2663	0.1972
Mercury	49925-06-03 02:53 G	19955944.49	19955944.62	19955944.75	0.2671	0.1557
Mercury	49928-12-03 19:41 G	19957224.30	19957224.32	19957224.34	0.2659	0.2586
Mercury	49935-11-27 20:53 G	19959774.27	19959774.37	19959774.47	0.2662	0.0758
Mercury	49948-11-29 14:10 G	19964524.98	19964525.09	19964525.20	0.2661	0.0448
Venus	49950-02-13 00:14 G	19964965.45	19964965.51	19964965.56	0.2639	0.2462
Venus	49958-02-10 17:02 G	19967885.05	19967885.21	19967885.36	0.2640	0.0795
Mercury	49958-06-01 00:43 G	19967995.37	19967995.53	19967995.68	0.2670	0.0821
Mercury	49961-12-02 07:12 G	19969275.72	19969275.80	19969275.89	0.2660	0.1636
Mercury	49968-11-25 08:24 G	19971825.77	19971825.85	19971825.93	0.2663	0.1738
Mercury	49971-06-04 09:50 G	19972746.81	19972746.91	19972747.01	0.2671	0.2082
Mercury	49981-11-28 01:41 G	19976576.46	19976576.57	19976576.67	0.2662	0.0525
Mercury	49994-11-30 18:58 G	19981327.18	19981327.29	19981327.39	0.2661	0.0681

51ST MILLENNIUM CE

This is a list of transits visible from Earth in the 51st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	50004-06-01 07:41	G	19984797.66	19984797.82	19984797.98	0.2670	0.0309	
Mercury	50007-12-03 12:00	G	19986077.93	19986078.00	19986078.08	0.2660	0.1863	
Mercury	50014-11-26 13:12	G	19988627.96	19988628.05	19988628.13	0.2663	0.1503	
Mercury	50017-06-04 16:34	G	19989549.16	19989549.19	19989549.23	0.2672	0.2603	
Mercury	50027-11-29 06:29	G	19993378.66	19993378.77	19993378.87	0.2662	0.0307	
Mercury	50037-05-30 05:31	G	19996848.72	19996848.73	19996848.75	0.2669	0.2643	
Mercury	50040-11-30 23:31	G	19998129.38	19998129.48	19998129.58	0.2661	0.0908	
Mercury	50047-11-25 00:29	G	20000679.49	20000679.52	20000679.56	0.2664	0.2484	
Mercury	50050-06-02 14:24	G	20001599.94	20001600.10	20001600.26	0.2670	0.0210	
Mercury	50053-12-03 16:48	G	20002880.14	20002880.20	20002880.27	0.2660	0.2089	
Mercury	50060-11-26 18:00	G	20005430.15	20005430.25	20005430.34	0.2663	0.1267	
Venus	50071-08-15 08:10	G	20009343.83	20009343.84	20009343.86	0.2692	0.2666	
Mercury	50073-11-29 11:02	G	20010180.86	20010180.96	20010181.07	0.2662	0.0110	
Venus	50079-08-12 21:50	G	20012263.27	20012263.41	20012263.56	0.2692	0.1154	
Mercury	50083-05-31 12:29	G	20013650.93	20013651.02	20013651.12	0.2669	0.2131	
Mercury	50086-12-02 04:19	G	20014931.58	20014931.68	20014931.78	0.2661	0.1134	
Mercury	50093-11-25 05:17	G	20017481.66	20017481.72	20017481.78	0.2664	0.2247	
Mercury	50096-06-02 21:22	G	20018402.23	20018402.39	20018402.55	0.2670	0.0727	
Mercury	50099-12-04 21:36	G	20019682.35	20019682.40	20019682.45	0.2660	0.2316	
Mercury	50106-11-28 22:34	G	20022232.34	20022232.44	20022232.54	0.2663	0.1035	
Mercury	50119-12-01 15:50	G	20026983.05	20026983.16	20026983.27	0.2662	0.0186	
Mercury	50129-06-01 19:12	G	20030453.18	20030453.30	20030453.43	0.2669	0.1627	

Mercury	50132-12-03 09:07 G	20031733.79	20031733.88	20031733.97	0.2661	0.1367
Mercury	50139-11-27 10:05 G	20034283.85	20034283.92	20034283.99	0.2664	0.2014
Mercury	50142-06-05 04:19 G	20035204.53	20035204.68	20035204.82	0.2671	0.1248
Mercury	50145-12-06 02:24 G	20036484.57	20036484.60	20036484.62	0.2659	0.2545
Mercury	50152-11-29 03:22 G	20039034.54	20039034.64	20039034.74	0.2663	0.0797
Mercury	50165-12-01 20:38 G	20043785.25	20043785.36	20043785.47	0.2661	0.0403
Mercury	50175-06-03 02:10 G	20047255.45	20047255.59	20047255.74	0.2670	0.1110
Mercury	50178-12-04 13:55 G	20048535.99	20048536.08	20048536.16	0.2660	0.1594
Mercury	50185-11-27 14:53 G	20051086.04	20051086.12	20051086.20	0.2663	0.1777
Mercury	50188-06-05 11:02 G	20052006.84	20052006.96	20052007.09	0.2671	0.1766
Venus	50193-02-14 02:53 G	20053721.59	20053721.62	20053721.65	0.2639	0.2589
Mercury	50198-11-30 08:10 G	20055836.73	20055836.84	20055836.94	0.2662	0.0569
Venus	50201-02-12 19:41 G	20056641.16	20056641.32	20056641.47	0.2640	0.0677
Mercury	50211-12-04 01:26 G	20060587.45	20060587.56	20060587.66	0.2661	0.0635
Mercury	50221-06-04 09:07 G	20064057.72	20064057.88	20064058.04	0.2670	0.0596
Mercury	50224-12-05 18:43 G	20065338.20	20065338.28	20065338.35	0.2660	0.1823
Mercury	50231-11-29 19:41 G	20067888.23	20067888.32	20067888.40	0.2663	0.1544
Mercury	50234-06-07 18:14 G	20068809.17	20068809.26	20068809.34	0.2671	0.2293
Mercury	50244-12-01 12:58 G	20072638.93	20072639.04	20072639.14	0.2662	0.0342
Mercury	50257-12-04 06:14 G	20077389.65	20077389.76	20077389.86	0.2661	0.0866
Mercury	50264-11-27 06:58 G	20079939.76	20079939.79	20079939.82	0.2664	0.2526
Mercury	50267-06-05 16:05 G	20080860.00	20080860.17	20080860.33	0.2670	0.0096
Mercury	50270-12-06 23:17 G	20082140.41	20082140.47	20082140.54	0.2660	0.2047
Mercury	50277-11-30 00:14 G	20084690.42	20084690.51	20084690.61	0.2663	0.1313
Mercury	50290-12-02 17:46 G	20089441.13	20089441.24	20089441.34	0.2662	0.0139
Mercury	50300-06-03 14:10 G	20092911.02	20092911.09	20092911.15	0.2669	0.2407
Mercury	50303-12-06 11:02 G	20094191.86	20094191.96	20094192.05	0.2661	0.1100
Mercury	50310-11-29 11:46 G	20096741.94	20096741.99	20096742.04	0.2664	0.2291
Mercury	50313-06-06 22:48 G	20097662.29	20097662.45	20097662.61	0.2670	0.0443
Venus	50314-08-18 07:55 G	20098099.78	20098099.83	20098099.89	0.2692	0.2491

Mercury	50316-12-08 04:05 G	20098942.62	20098942.67	20098942.72	0.2660	0.2272
Venus	50322-08-15 21:36 G	20101019.26	20101019.40	20101019.54	0.2692	0.1333
Mercury	50323-12-02 05:02 G	20101492.61	20101492.71	20101492.81	0.2663	0.1075
Mercury	50336-12-03 22:19 G	20106243.33	20106243.43	20106243.54	0.2662	0.0163
Mercury	50346-06-04 20:53 G	20109713.26	20109713.37	20109713.49	0.2669	0.1896
Mercury	50349-12-06 15:36 G	20110994.06	20110994.15	20110994.25	0.2661	0.1320
Mercury	50356-11-29 16:34 G	20113544.12	20113544.19	20113544.26	0.2664	0.2052
Mercury	50359-06-08 05:46 G	20114464.59	20114464.74	20114464.89	0.2670	0.0950
Mercury	50362-12-09 08:53 G	20115744.83	20115744.87	20115744.90	0.2660	0.2500
Mercury	50369-12-02 09:50 G	20118294.81	20118294.91	20118295.01	0.2663	0.0841
Mercury	50382-12-05 03:07 G	20123045.53	20123045.63	20123045.74	0.2662	0.0369
Mercury	50392-06-05 03:50 G	20126515.52	20126515.66	20126515.79	0.2669	0.1397
Mercury	50395-12-07 20:24 G	20127796.26	20127796.35	20127796.44	0.2661	0.1549
Mercury	50402-11-30 21:22 G	20130346.31	20130346.39	20130346.47	0.2664	0.1818
Mercury	50405-06-08 12:43 G	20131266.89	20131267.03	20131267.16	0.2670	0.1466
Mercury	50415-12-03 14:38 G	20135097.01	20135097.11	20135097.22	0.2663	0.0605
Mercury	50428-12-05 07:55 G	20139847.73	20139847.83	20139847.94	0.2662	0.0593
Mercury	50438-06-06 10:34 G	20143317.79	20143317.94	20143318.10	0.2669	0.0886
Mercury	50441-12-08 01:12 G	20144598.47	20144598.55	20144598.63	0.2661	0.1776
Venus	50444-02-14 22:19 G	20145397.27	20145397.43	20145397.58	0.2640	0.0550
Mercury	50448-12-01 02:10 G	20147148.50	20147148.59	20147148.67	0.2664	0.1588
Mercury	50451-06-09 19:41 G	20148069.21	20148069.32	20148069.42	0.2671	0.1980
Mercury	50461-12-03 19:26 G	20151899.20	20151899.31	20151899.42	0.2663	0.0376
Mercury	50474-12-06 12:43 G	20156649.93	20156650.03	20156650.13	0.2661	0.0823
Mercury	50481-11-29 13:26 G	20159200.03	20159200.06	20159200.08	0.2665	0.2571
Mercury	50484-06-06 17:31 G	20160120.07	20160120.23	20160120.39	0.2670	0.0372
Mercury	50487-12-09 06:00 G	20161400.68	20161400.75	20161400.81	0.2660	0.2007
Mercury	50494-12-02 06:43 G	20163950.69	20163950.78	20163950.88	0.2664	0.1356
Mercury	50497-06-10 02:38 G	20164871.55	20164871.61	20164871.66	0.2671	0.2503
Mercury	50507-12-06 00:14 G	20168701.40	20168701.51	20168701.62	0.2662	0.0152

Mercury	50517-06-05 15:50 G	20172171.16	20172171.16	20172171.16	0.2668	0.2665
Mercury	50520-12-07 17:31 G	20173452.13	20173452.23	20173452.33	0.2661	0.1050
Mercury	50527-12-01 18:14 G	20176002.21	20176002.26	20176002.31	0.2665	0.2334
Mercury	50530-06-09 00:29 G	20176922.36	20176922.52	20176922.68	0.2670	0.0146
Mercury	50533-12-10 10:34 G	20178202.89	20178202.94	20178203.00	0.2660	0.2233
Mercury	50540-12-03 11:31 G	20180752.89	20180752.98	20180753.08	0.2663	0.1121
Mercury	50553-12-06 05:02 G	20185503.60	20185503.71	20185503.81	0.2662	0.0125
Venus	50557-08-19 07:26 G	20186855.73	20186855.81	20186855.89	0.2692	0.2307
Mercury	50563-06-06 22:34 G	20188973.35	20188973.44	20188973.53	0.2668	0.2171
Venus	50565-08-16 21:07 G	20189775.25	20189775.38	20189775.51	0.2692	0.1516
Mercury	50566-12-08 22:05 G	20190254.33	20190254.42	20190254.52	0.2661	0.1282
Mercury	50573-12-01 23:02 G	20192804.39	20192804.46	20192804.52	0.2665	0.2097
Mercury	50576-06-09 07:26 G	20193724.65	20193724.81	20193724.96	0.2670	0.0658
Mercury	50579-12-11 15:22 G	20195005.10	20195005.14	20195005.18	0.2660	0.2455
Mercury	50586-12-04 16:19 G	20197555.08	20197555.18	20197555.29	0.2663	0.0888
Mercury	50599-12-07 09:36 G	20202305.80	20202305.90	20202306.01	0.2662	0.0333
Mercury	50609-06-08 05:31 G	20205775.61	20205775.73	20205775.86	0.2669	0.1659
Mercury	50612-12-10 02:53 G	20207056.53	20207056.62	20207056.71	0.2661	0.1504
Mercury	50619-12-04 03:50 G	20209606.58	20209606.66	20209606.73	0.2664	0.1862
Mercury	50622-06-11 14:10 G	20210526.95	20210527.09	20210527.24	0.2670	0.1168
Mercury	50632-12-05 21:07 G	20214357.28	20214357.38	20214357.49	0.2663	0.0654
Mercury	50645-12-08 14:24 G	20219108.00	20219108.10	20219108.21	0.2662	0.0551
Mercury	50655-06-09 12:14 G	20222577.87	20222578.01	20222578.16	0.2669	0.1164
Mercury	50658-12-11 07:41 G	20223858.74	20223858.82	20223858.90	0.2661	0.1733
Mercury	50665-12-04 08:38 G	20226408.77	20226408.86	20226408.94	0.2664	0.1628
Mercury	50668-06-11 21:07 G	20227329.26	20227329.38	20227329.51	0.2670	0.1687
Mercury	50678-12-07 01:55 G	20231159.47	20231159.58	20231159.69	0.2663	0.0418
Venus	50687-02-17 00:58 G	20234153.39	20234153.54	20234153.70	0.2640	0.0418
Mercury	50691-12-09 19:12 G	20235910.20	20235910.30	20235910.40	0.2662	0.0776
Mercury	50698-12-02 19:55 G	20238460.31	20238460.33	20238460.35	0.2665	0.2612

Mercury	50701-06-10 19:12 G	20239380.14	20239380.30	20239380.46	0.2669	0.0653
Mercury	50704-12-12 12:29 G	20240660.95	20240661.02	20240661.09	0.2661	0.1958
Mercury	50711-12-06 13:26 G	20243210.96	20243211.06	20243211.15	0.2664	0.1394
Mercury	50714-06-14 04:05 G	20244131.58	20244131.67	20244131.76	0.2670	0.2192
Mercury	50724-12-08 06:43 G	20247961.67	20247961.78	20247961.89	0.2663	0.0190
Mercury	50737-12-11 00:00 G	20252712.40	20252712.50	20252712.60	0.2662	0.1007
Mercury	50744-12-04 00:43 G	20255262.48	20255262.53	20255262.58	0.2665	0.2377
Mercury	50747-06-12 01:55 G	20256182.42	20256182.58	20256182.74	0.2669	0.0160
Mercury	50750-12-13 17:17 G	20257463.16	20257463.22	20257463.28	0.2661	0.2188
Mercury	50757-12-06 18:14 G	20260013.16	20260013.26	20260013.35	0.2664	0.1163
Mercury	50770-12-09 11:31 G	20264763.87	20264763.98	20264764.09	0.2663	0.0079
Mercury	50780-06-09 00:29 G	20268233.45	20268233.52	20268233.58	0.2668	0.2433
Mercury	50783-12-12 04:48 G	20269514.60	20269514.70	20269514.79	0.2662	0.1236
Mercury	50790-12-05 05:31 G	20272064.67	20272064.73	20272064.79	0.2665	0.2142
Mercury	50793-06-12 08:53 G	20272984.71	20272984.87	20272985.03	0.2669	0.0356
Mercury	50796-12-13 22:05 G	20274265.37	20274265.42	20274265.46	0.2661	0.2414
Venus	50800-08-21 07:12 G	20275611.71	20275611.80	20275611.90	0.2692	0.2143
Mercury	50803-12-07 22:48 G	20276815.35	20276815.45	20276815.56	0.2664	0.0932
Venus	50808-08-18 20:53 G	20278531.24	20278531.37	20278531.49	0.2692	0.1677
Mercury	50816-12-09 16:19 G	20281566.07	20281566.18	20281566.28	0.2663	0.0291
Mercury	50826-06-10 07:12 G	20285035.69	20285035.80	20285035.91	0.2668	0.1937
Mercury	50829-12-12 09:36 G	20286316.81	20286316.90	20286316.99	0.2661	0.1467
Mercury	50836-12-05 10:19 G	20288866.85	20288866.93	20288867.00	0.2665	0.1908
Mercury	50839-06-13 15:50 G	20289787.01	20289787.16	20289787.31	0.2670	0.0876
Mercury	50842-12-15 02:38 G	20291067.60	20291067.61	20291067.62	0.2660	0.2641
Mercury	50849-12-08 03:36 G	20293617.55	20293617.65	20293617.76	0.2663	0.0697
Mercury	50862-12-10 20:53 G	20298368.27	20298368.37	20298368.48	0.2662	0.0510
Mercury	50872-06-10 13:55 G	20301837.95	20301838.08	20301838.22	0.2668	0.1433
Mercury	50875-12-13 14:10 G	20303119.01	20303119.09	20303119.18	0.2661	0.1692
Mercury	50882-12-06 15:07 G	20305669.04	20305669.13	20305669.21	0.2664	0.1674

Mercury	50885-06-13 22:48 G	20306589.31	20306589.45	20306589.58	0.2670	0.1385
Mercury	50895-12-09 08:24 G	20310419.74	20310419.85	20310419.96	0.2663	0.0464
Mercury	50908-12-12 01:41 G	20315170.47	20315170.57	20315170.68	0.2662	0.0735
Mercury	50915-12-06 02:24 G	20317720.60	20317720.60	20317720.60	0.2666	0.2657
Mercury	50918-06-12 20:53 G	20318640.22	20318640.37	20318640.52	0.2668	0.0941
Mercury	50921-12-14 18:58 G	20319921.22	20319921.29	20319921.37	0.2661	0.1918
Mercury	50928-12-07 19:55 G	20322471.24	20322471.33	20322471.42	0.2664	0.1438
Venus	50930-02-19 03:50 G	20322909.50	20322909.66	20322909.82	0.2640	0.0280
Mercury	50931-06-16 05:31 G	20323391.62	20323391.73	20323391.85	0.2670	0.1898
Mercury	50941-12-10 13:12 G	20327221.94	20327222.05	20327222.16	0.2663	0.0232
Mercury	50954-12-13 06:29 G	20331972.67	20331972.77	20331972.87	0.2662	0.0963
Mercury	50961-12-06 07:12 G	20334522.76	20334522.80	20334522.84	0.2665	0.2420
Mercury	50964-06-13 03:36 G	20335442.50	20335442.65	20335442.81	0.2669	0.0434
Mercury	50967-12-15 23:46 G	20336723.43	20336723.49	20336723.55	0.2661	0.2140
Mercury	50974-12-09 00:29 G	20339273.43	20339273.52	20339273.62	0.2664	0.1209
Mercury	50977-06-16 12:29 G	20340193.95	20340194.02	20340194.09	0.2670	0.2404
Mercury	50987-12-11 18:00 G	20344024.14	20344024.25	20344024.36	0.2663	0.0024
Mercury	51000-12-14 11:17 G	20348774.87	20348774.97	20348775.07	0.2662	0.1192

52ND MILLENNIUM CE

This is a list of transits visible from Earth in the 52nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	51007-12-08 12:00 G		20351324.94	20351325.00	20351325.06	0.2665	0.2186	

Mercury	51010-06-15 10:34 G	20352244.78	20352244.94	20352245.10	0.2669	0.0073
Mercury	51013-12-17 04:34 G	20353525.64	20353525.69	20353525.73	0.2661	0.2368
Mercury	51020-12-10 05:17 G	20356075.62	20356075.72	20356075.83	0.2664	0.0975
Mercury	51033-12-12 22:48 G	20360826.34	20360826.45	20360826.56	0.2663	0.0237
Mercury	51043-06-13 08:53 G	20364295.78	20364295.87	20364295.96	0.2668	0.2208
Venus	51043-08-24 06:58 G	20364367.68	20364367.79	20364367.90	0.2692	0.1963
Mercury	51046-12-15 16:05 G	20365577.08	20365577.17	20365577.26	0.2662	0.1419
Venus	51051-08-21 20:24 G	20367287.24	20367287.35	20367287.47	0.2692	0.1850
Mercury	51053-12-08 16:48 G	20368127.12	20368127.20	20368127.27	0.2665	0.1953
Mercury	51056-06-15 17:31 G	20369047.07	20369047.23	20369047.38	0.2669	0.0583
Mercury	51059-12-18 09:22 G	20370327.87	20370327.89	20370327.91	0.2661	0.2594
Mercury	51066-12-11 10:05 G	20372877.82	20372877.92	20372878.03	0.2664	0.0742
Mercury	51079-12-14 03:36 G	20377628.54	20377628.65	20377628.75	0.2663	0.0464
Mercury	51089-06-13 15:36 G	20381098.03	20381098.15	20381098.27	0.2668	0.1715
Mercury	51092-12-15 20:53 G	20382379.28	20382379.37	20382379.45	0.2662	0.1649
Mercury	51099-12-09 21:36 G	20384929.31	20384929.40	20384929.48	0.2665	0.1716
Mercury	51102-06-18 00:14 G	20385849.36	20385849.51	20385849.66	0.2669	0.1082
Mercury	51112-12-12 14:53 G	20389680.02	20389680.12	20389680.23	0.2664	0.0510
Mercury	51125-12-15 08:24 G	20394430.74	20394430.85	20394430.95	0.2663	0.0698
Mercury	51135-06-15 22:34 G	20397900.30	20397900.44	20397900.59	0.2668	0.1204
Mercury	51138-12-18 01:26 G	20399181.49	20399181.56	20399181.64	0.2662	0.1872
Mercury	51145-12-11 02:24 G	20401731.51	20401731.60	20401731.69	0.2665	0.1488
Mercury	51148-06-18 07:12 G	20402651.67	20402651.80	20402651.93	0.2669	0.1594
Mercury	51158-12-13 19:41 G	20406482.21	20406482.32	20406482.43	0.2664	0.0278
Mercury	51171-12-16 12:58 G	20411232.94	20411233.04	20411233.15	0.2663	0.0922
Venus	51173-02-21 06:29 G	20411665.61	20411665.77	20411665.93	0.2640	0.0145
Mercury	51178-12-09 13:41 G	20413783.03	20413783.07	20413783.11	0.2666	0.2470
Mercury	51181-06-16 05:31 G	20414702.57	20414702.73	20414702.88	0.2668	0.0710
Mercury	51184-12-18 06:14 G	20415983.70	20415983.76	20415983.83	0.2661	0.2097
Mercury	51191-12-12 07:12 G	20418533.70	20418533.80	20418533.89	0.2665	0.1253

Mercury	51194-06-19 14:10 G	20419453.99	20419454.09	20419454.19	0.2670	0.2112
Mercury	51204-12-14 00:29 G	20423284.41	20423284.52	20423284.63	0.2663	0.0048
Mercury	51217-12-16 17:46 G	20428035.14	20428035.24	20428035.34	0.2662	0.1144
Mercury	51224-12-09 18:29 G	20430585.21	20430585.27	20430585.32	0.2666	0.2232
Mercury	51227-06-17 12:14 G	20431504.85	20431505.01	20431505.17	0.2668	0.0206
Mercury	51230-12-19 11:02 G	20432785.91	20432785.96	20432786.01	0.2661	0.2320
Mercury	51237-12-12 11:46 G	20435335.89	20435335.99	20435336.10	0.2664	0.1024
Mercury	51240-06-19 20:53 G	20436256.34	20436256.37	20436256.40	0.2670	0.2613
Mercury	51250-12-15 05:17 G	20440086.61	20440086.72	20440086.83	0.2663	0.0185
Mercury	51260-06-14 10:34 G	20443555.89	20443555.94	20443556.00	0.2667	0.2469
Mercury	51263-12-17 22:34 G	20444837.35	20444837.44	20444837.53	0.2662	0.1371
Mercury	51270-12-10 23:17 G	20447387.40	20447387.47	20447387.54	0.2666	0.1995
Mercury	51273-06-17 18:58 G	20448307.13	20448307.29	20448307.45	0.2668	0.0298
Mercury	51276-12-19 15:50 G	20449588.13	20449588.16	20449588.19	0.2661	0.2546
Mercury	51283-12-13 16:48 G	20452138.09	20452138.20	20452138.30	0.2664	0.0789
Venus	51286-08-25 06:29 G	20453123.66	20453123.77	20453123.89	0.2692	0.1805
Venus	51294-08-22 20:10 G	20456043.23	20456043.34	20456043.44	0.2692	0.2014
Mercury	51296-12-15 10:05 G	20456888.81	20456888.92	20456889.02	0.2663	0.0419
Mercury	51306-06-16 17:31 G	20460358.12	20460358.23	20460358.34	0.2667	0.1973
Mercury	51309-12-19 03:22 G	20461639.55	20461639.64	20461639.72	0.2662	0.1598
Mercury	51316-12-12 04:05 G	20464189.59	20464189.67	20464189.75	0.2665	0.1762
Mercury	51319-06-20 01:55 G	20465109.43	20465109.58	20465109.73	0.2669	0.0797
Mercury	51329-12-14 21:22 G	20468940.29	20468940.39	20468940.50	0.2664	0.0559
Mercury	51342-12-17 14:53 G	20473691.01	20473691.12	20473691.22	0.2663	0.0652
Mercury	51352-06-17 00:14 G	20477160.38	20477160.51	20477160.64	0.2667	0.1486
Mercury	51355-12-20 08:10 G	20478441.76	20478441.84	20478441.91	0.2662	0.1827
Mercury	51362-12-13 08:53 G	20480991.78	20480991.87	20480991.96	0.2665	0.1529
Mercury	51365-06-20 08:53 G	20481911.73	20481911.87	20481912.01	0.2669	0.1300
Mercury	51375-12-16 02:10 G	20485742.48	20485742.59	20485742.70	0.2664	0.0325
Mercury	51388-12-17 19:26 G	20490493.21	20490493.31	20490493.42	0.2663	0.0876

Mercury	51395-12-11 20:10 G	20493043.30	20493043.34	20493043.37	0.2666	0.2513
Mercury	51398-06-18 07:12 G	20493962.65	20493962.80	20493962.95	0.2668	0.0990
Mercury	51401-12-21 12:58 G	20495243.97	20495244.04	20495244.10	0.2662	0.2054
Mercury	51408-12-14 13:41 G	20497793.97	20497794.07	20497794.16	0.2665	0.1300
Mercury	51411-06-22 15:36 G	20498714.03	20498714.15	20498714.27	0.2669	0.1796
Venus	51416-02-24 09:22 G	20500421.73	20500421.89	20500422.05	0.2640	0.0015
Mercury	51421-12-17 06:58 G	20502544.68	20502544.79	20502544.90	0.2664	0.0093
Mercury	51434-12-20 00:14 G	20507295.41	20507295.51	20507295.61	0.2663	0.1100
Mercury	51441-12-13 00:58 G	20509845.48	20509845.54	20509845.59	0.2666	0.2280
Mercury	51444-06-19 13:55 G	20510764.92	20510765.08	20510765.24	0.2668	0.0496
Mercury	51447-12-22 17:31 G	20512046.18	20512046.23	20512046.29	0.2662	0.2278
Mercury	51454-12-15 18:29 G	20514596.17	20514596.27	20514596.36	0.2665	0.1066
Mercury	51457-06-22 22:34 G	20515516.36	20515516.44	20515516.52	0.2669	0.2306
Mercury	51467-12-18 11:46 G	20519346.88	20519346.99	20519347.10	0.2664	0.0143
Mercury	51480-12-20 05:02 G	20524097.62	20524097.71	20524097.80	0.2663	0.1325
Mercury	51487-12-14 05:46 G	20526647.67	20526647.74	20526647.81	0.2666	0.2044
Mercury	51490-06-20 20:53 G	20527567.20	20527567.37	20527567.53	0.2668	0.0069
Mercury	51493-12-22 22:19 G	20528848.40	20528848.43	20528848.47	0.2662	0.2498
Mercury	51500-12-16 23:02 G	20531398.36	20531398.46	20531398.57	0.2665	0.0838
Mercury	51513-12-19 16:34 G	20536149.08	20536149.19	20536149.30	0.2664	0.0372
Mercury	51523-06-19 19:12 G	20539618.22	20539618.30	20539618.39	0.2667	0.2241
Mercury	51526-12-22 09:50 G	20540899.82	20540899.91	20540900.00	0.2662	0.1552
Venus	51529-08-28 06:14 G	20541879.63	20541879.76	20541879.89	0.2692	0.1625
Mercury	51533-12-15 10:34 G	20543449.86	20543449.94	20543450.02	0.2666	0.1813
Mercury	51536-06-22 03:36 G	20544369.49	20544369.65	20544369.81	0.2668	0.0507
Venus	51537-08-25 19:41 G	20544799.23	20544799.32	20544799.41	0.2692	0.2176
Mercury	51546-12-18 03:50 G	20548200.56	20548200.66	20548200.77	0.2665	0.0602
Mercury	51559-12-20 21:22 G	20552951.28	20552951.39	20552951.49	0.2663	0.0600
Mercury	51569-06-20 02:10 G	20556420.47	20556420.59	20556420.71	0.2667	0.1751
Mercury	51572-12-22 14:38 G	20557702.03	20557702.11	20557702.19	0.2662	0.1777

Mercury	51579-12-16 15:22 G	20560252.05	20560252.14	20560252.22	0.2666	0.1578
Mercury	51582-06-23 10:19 G	20561171.79	20561171.93	20561172.08	0.2668	0.1008
Mercury	51592-12-18 08:38 G	20565002.75	20565002.86	20565002.97	0.2664	0.0371
Mercury	51605-12-21 02:10 G	20569753.48	20569753.59	20569753.69	0.2663	0.0829
Mercury	51612-12-14 02:38 G	20572303.58	20572303.61	20572303.63	0.2667	0.2563
Mercury	51615-06-21 08:53 G	20573222.73	20573222.87	20573223.01	0.2667	0.1267
Mercury	51618-12-23 19:26 G	20574504.24	20574504.31	20574504.38	0.2662	0.2003
Mercury	51625-12-16 20:10 G	20577054.24	20577054.34	20577054.43	0.2665	0.1345
Mercury	51628-06-23 17:17 G	20577974.09	20577974.22	20577974.35	0.2669	0.1502
Mercury	51638-12-19 13:26 G	20581804.95	20581805.06	20581805.17	0.2664	0.0138
Mercury	51651-12-22 06:43 G	20586555.69	20586555.78	20586555.88	0.2663	0.1057
Mercury	51658-12-15 07:12 G	20589105.75	20589105.80	20589105.86	0.2666	0.2329
Venus	51659-02-25 11:46 G	20589177.83	20589177.99	20589178.15	0.2640	0.0108
Mercury	51661-06-21 15:36 G	20590025.00	20590025.15	20590025.30	0.2667	0.0772
Mercury	51664-12-24 00:00 G	20591306.45	20591306.50	20591306.56	0.2662	0.2229
Mercury	51671-12-18 00:43 G	20593856.43	20593856.53	20593856.63	0.2665	0.1115
Mercury	51674-06-25 00:00 G	20594776.40	20594776.50	20594776.61	0.2669	0.2006
Mercury	51684-12-19 18:14 G	20598607.15	20598607.26	20598607.37	0.2664	0.0093
Mercury	51697-12-22 11:31 G	20603357.89	20603357.98	20603358.08	0.2663	0.1284
Mercury	51704-12-16 12:00 G	20605907.94	20605908.00	20605908.07	0.2666	0.2097
Mercury	51707-06-23 22:19 G	20606827.27	20606827.43	20606827.59	0.2668	0.0287
Mercury	51710-12-26 04:48 G	20608108.66	20608108.70	20608108.74	0.2662	0.2452
Mercury	51717-12-19 05:31 G	20610658.63	20610658.73	20610658.84	0.2665	0.0882
Mercury	51720-06-26 06:58 G	20611578.74	20611578.79	20611578.84	0.2669	0.2508
Mercury	51730-12-21 23:02 G	20615409.35	20615409.46	20615409.57	0.2664	0.0320
Mercury	51740-06-20 21:07 G	20618878.33	20618878.38	20618878.43	0.2666	0.2501
Mercury	51743-12-24 16:19 G	20620160.09	20620160.18	20620160.27	0.2663	0.1504
Mercury	51750-12-17 16:48 G	20622710.13	20622710.20	20622710.28	0.2666	0.1860
Mercury	51753-06-24 05:17 G	20623629.56	20623629.72	20623629.88	0.2668	0.0218
Mercury	51763-12-20 10:19 G	20627460.83	20627460.93	20627461.04	0.2665	0.0651

Venus	51772-08-29 05:46 G	20630635.61	20630635.74	20630635.87	0.2692	0.1452
Mercury	51776-12-22 03:50 G	20632211.55	20632211.66	20632211.76	0.2664	0.0549
Venus	51780-08-26 19:26 G	20633555.23	20633555.31	20633555.38	0.2692	0.2355
Mercury	51786-06-22 03:50 G	20635680.56	20635680.66	20635680.76	0.2666	0.2016
Mercury	51789-12-24 21:07 G	20636962.30	20636962.38	20636962.46	0.2663	0.1730
Mercury	51796-12-17 21:36 G	20639512.32	20639512.40	20639512.49	0.2666	0.1628
Mercury	51799-06-25 12:00 G	20640431.85	20640432.00	20640432.16	0.2668	0.0718
Mercury	51809-12-21 15:07 G	20644263.02	20644263.13	20644263.24	0.2665	0.0419
Mercury	51822-12-24 08:38 G	20649013.75	20649013.86	20649013.96	0.2664	0.0779
Mercury	51829-12-17 08:53 G	20651563.85	20651563.87	20651563.89	0.2667	0.2612
Mercury	51832-06-23 10:34 G	20652482.81	20652482.94	20652483.07	0.2667	0.1531
Mercury	51835-12-27 01:55 G	20653764.50	20653764.58	20653764.65	0.2663	0.1954
Mercury	51842-12-20 02:24 G	20656314.51	20656314.60	20656314.70	0.2666	0.1394
Mercury	51845-06-26 18:58 G	20657234.15	20657234.29	20657234.43	0.2668	0.1215
Mercury	51855-12-22 19:55 G	20661065.22	20661065.33	20661065.44	0.2665	0.0193
Mercury	51868-12-24 13:26 G	20665815.96	20665816.06	20665816.16	0.2664	0.1010
Mercury	51875-12-18 13:41 G	20668366.03	20668366.07	20668366.12	0.2667	0.2377
Mercury	51878-06-24 17:31 G	20669285.08	20669285.23	20669285.37	0.2667	0.1045
Mercury	51881-12-27 06:43 G	20670566.72	20670566.78	20670566.84	0.2662	0.2180
Mercury	51888-12-20 07:12 G	20673116.71	20673116.80	20673116.90	0.2666	0.1163
Mercury	51891-06-28 01:41 G	20674036.45	20674036.57	20674036.70	0.2668	0.1713
Mercury	51901-12-24 00:43 G	20677867.42	20677867.53	20677867.64	0.2665	0.0044
Venus	51902-02-28 14:38 G	20677933.95	20677934.11	20677934.27	0.2640	0.0270
Mercury	51914-12-26 18:00 G	20682618.16	20682618.25	20682618.35	0.2663	0.1228
Mercury	51921-12-19 18:29 G	20685168.21	20685168.27	20685168.34	0.2667	0.2141
Mercury	51924-06-26 00:14 G	20686087.35	20686087.51	20686087.67	0.2667	0.0554
Mercury	51927-12-29 11:17 G	20687368.93	20687368.97	20687369.02	0.2662	0.2403
Mercury	51934-12-22 12:00 G	20689918.90	20689919.00	20689919.11	0.2665	0.0930
Mercury	51937-06-29 08:38 G	20690838.77	20690838.86	20690838.95	0.2668	0.2206
Mercury	51947-12-25 05:31 G	20694669.62	20694669.73	20694669.84	0.2664	0.0271

Mercury	51960-12-26 22:48 G	20699420.36	20699420.45	20699420.54	0.2663	0.1456
Mercury	51967-12-20 23:17 G	20701970.40	20701970.47	20701970.55	0.2667	0.1910
Mercury	51970-06-27 06:58 G	20702889.63	20702889.79	20702889.95	0.2667	0.0070
Mercury	51973-12-29 16:05 G	20704171.16	20704171.17	20704171.19	0.2662	0.2623
Mercury	51980-12-22 16:48 G	20706721.10	20706721.20	20706721.31	0.2665	0.0699
Mercury	51993-12-25 10:19 G	20711471.82	20711471.93	20711472.03	0.2664	0.0503

53RD MILLENNIUM CE

This is a list of transits visible from Earth in the 53rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	52003-06-25 05:46 G		20714940.66	20714940.74	20714940.82	0.2666	0.2280	
Mercury	52006-12-28 03:36 G		20716222.57	20716222.65	20716222.73	0.2663	0.1679	
Mercury	52013-12-21 04:05 G		20718772.59	20718772.67	20718772.76	0.2666	0.1675	
Venus	52015-09-01 05:31 G		20719391.59	20719391.73	20719391.87	0.2692	0.1292	
Mercury	52016-06-27 13:41 G		20719691.92	20719692.07	20719692.23	0.2667	0.0426	
Venus	52023-08-29 18:58 G		20722311.23	20722311.29	20722311.35	0.2691	0.2506	
Mercury	52026-12-23 21:36 G		20723523.29	20723523.40	20723523.51	0.2665	0.0470	
Mercury	52039-12-26 15:07 G		20728274.02	20728274.13	20728274.23	0.2664	0.0732	
Mercury	52046-12-19 15:22 G		20730824.14	20730824.14	20730824.14	0.2667	0.2662	
Mercury	52049-06-25 12:29 G		20731742.90	20731743.02	20731743.14	0.2666	0.1797	
Mercury	52052-12-28 08:24 G		20733024.78	20733024.85	20733024.92	0.2663	0.1907	
Mercury	52059-12-22 08:53 G		20735574.78	20735574.87	20735574.96	0.2666	0.1445	
Mercury	52062-06-28 20:38 G		20736494.21	20736494.36	20736494.51	0.2668	0.0920	

Mercury	52072-12-24 02:24 G	20740325.49	20740325.60	20740325.71	0.2665	0.0236
Mercury	52085-12-26 19:41 G	20745076.22	20745076.32	20745076.43	0.2664	0.0957
Mercury	52092-12-19 20:10 G	20747626.30	20747626.34	20747626.38	0.2667	0.2427
Mercury	52095-06-26 19:12 G	20748545.17	20748545.30	20748545.44	0.2666	0.1310
Mercury	52098-12-29 13:12 G	20749826.99	20749827.05	20749827.11	0.2663	0.2128
Mercury	52105-12-23 13:41 G	20752376.98	20752377.07	20752377.17	0.2666	0.1210
Mercury	52108-06-30 03:22 G	20753296.51	20753296.64	20753296.78	0.2668	0.1414
Mercury	52118-12-26 07:12 G	20757127.69	20757127.80	20757127.91	0.2665	0.0032
Mercury	52131-12-29 00:29 G	20761878.43	20761878.52	20761878.62	0.2664	0.1182
Mercury	52138-12-22 00:58 G	20764428.48	20764428.54	20764428.60	0.2667	0.2192
Mercury	52141-06-28 01:55 G	20765347.43	20765347.58	20765347.73	0.2666	0.0831
Mercury	52144-12-30 18:00 G	20766629.20	20766629.25	20766629.29	0.2663	0.2353
Venus	52145-03-01 17:02 G	20766690.06	20766690.21	20766690.37	0.2640	0.0370
Mercury	52151-12-24 18:29 G	20769179.17	20769179.27	20769179.37	0.2666	0.0979
Mercury	52154-07-01 10:19 G	20770098.82	20770098.93	20770099.04	0.2668	0.1911
Mercury	52164-12-26 12:00 G	20773929.89	20773930.00	20773930.11	0.2665	0.0227
Mercury	52177-12-29 05:17 G	20778680.63	20778680.72	20778680.81	0.2664	0.1405
Mercury	52184-12-22 05:46 G	20781230.67	20781230.74	20781230.81	0.2667	0.1956
Mercury	52187-06-29 08:53 G	20782149.71	20782149.87	20782150.02	0.2667	0.0350
Mercury	52190-12-31 22:34 G	20783431.42	20783431.44	20783431.47	0.2663	0.2575
Mercury	52197-12-24 23:17 G	20785981.37	20785981.47	20785981.57	0.2666	0.0747
Mercury	52200-07-02 17:02 G	20786901.15	20786901.21	20786901.28	0.2668	0.2405
Mercury	52210-12-28 16:48 G	20790732.09	20790732.20	20790732.30	0.2665	0.0451
Mercury	52220-06-27 07:41 G	20794200.77	20794200.82	20794200.86	0.2665	0.2541
Mercury	52223-12-31 10:05 G	20795482.84	20795482.92	20795483.01	0.2664	0.1632
Mercury	52230-12-24 10:34 G	20798032.86	20798032.94	20798033.02	0.2667	0.1725
Mercury	52233-06-30 15:36 G	20798951.99	20798952.15	20798952.31	0.2667	0.0148
Mercury	52243-12-27 04:05 G	20802783.56	20802783.67	20802783.78	0.2666	0.0515
Mercury	52256-12-28 21:36 G	20807534.29	20807534.40	20807534.50	0.2664	0.0682
Venus	52258-09-03 05:02 G	20808147.56	20808147.71	20808147.85	0.2692	0.1108

Mercury	52266-06-28 14:24 G	20811003.00	20811003.10	20811003.20	0.2666	0.2059
Venus	52266-08-31 18:29 G	20811067.26	20811067.27	20811067.28	0.2691	0.2679
Mercury	52269-12-31 14:53 G	20812285.04	20812285.12	20812285.20	0.2663	0.1852
Mercury	52276-12-24 15:22 G	20814835.05	20814835.14	20814835.23	0.2667	0.1490
Mercury	52279-07-01 22:19 G	20815754.28	20815754.43	20815754.59	0.2667	0.0632
Mercury	52289-12-27 08:53 G	20819585.76	20819585.87	20819585.98	0.2665	0.0288
Mercury	52302-12-31 02:24 G	20824336.49	20824336.60	20824336.70	0.2664	0.0907
Mercury	52309-12-24 02:38 G	20826886.57	20826886.61	20826886.65	0.2668	0.2478
Mercury	52312-06-29 20:53 G	20827805.25	20827805.37	20827805.50	0.2666	0.1590
Mercury	52316-01-02 19:41 G	20829087.25	20829087.32	20829087.39	0.2663	0.2080
Mercury	52322-12-26 20:10 G	20831637.24	20831637.34	20831637.44	0.2667	0.1259
Mercury	52325-07-03 05:02 G	20832556.57	20832556.71	20832556.86	0.2667	0.1120
Mercury	52335-12-29 13:41 G	20836387.96	20836388.07	20836388.18	0.2665	0.0060
Mercury	52348-12-31 07:12 G	20841138.70	20841138.80	20841138.89	0.2664	0.1135
Mercury	52355-12-25 07:26 G	20843688.75	20843688.81	20843688.87	0.2668	0.2243
Mercury	52358-07-01 03:50 G	20844607.52	20844607.66	20844607.81	0.2666	0.1098
Mercury	52362-01-03 00:29 G	20845889.47	20845889.52	20845889.57	0.2663	0.2301
Mercury	52368-12-27 00:58 G	20848439.44	20848439.54	20848439.64	0.2666	0.1030
Mercury	52371-07-04 12:00 G	20849358.87	20849359.00	20849359.12	0.2667	0.1608
Mercury	52381-12-29 18:29 G	20853190.16	20853190.27	20853190.38	0.2665	0.0172
Venus	52388-03-03 19:55 G	20855446.18	20855446.33	20855446.49	0.2640	0.0535
Mercury	52395-01-01 11:46 G	20857940.90	20857940.99	20857941.09	0.2664	0.1361
Mercury	52401-12-25 12:14 G	20860490.94	20860491.01	20860491.08	0.2667	0.2011
Mercury	52404-07-01 10:34 G	20861409.79	20861409.94	20861410.10	0.2666	0.0615
Mercury	52408-01-04 05:17 G	20862691.68	20862691.72	20862691.75	0.2663	0.2527
Mercury	52414-12-28 05:46 G	20865241.64	20865241.74	20865241.84	0.2666	0.0799
Mercury	52417-07-04 18:43 G	20866161.19	20866161.28	20866161.38	0.2668	0.2111
Mercury	52427-12-30 23:17 G	20869992.36	20869992.47	20869992.58	0.2665	0.0403
Mercury	52441-01-01 16:34 G	20874743.11	20874743.19	20874743.28	0.2664	0.1578
Mercury	52447-12-26 17:02 G	20877293.13	20877293.21	20877293.29	0.2667	0.1778

Mercury	52450-07-02 17:31 G	20878212.07	20878212.23	20878212.39	0.2666	0.0144
Mercury	52460-12-28 10:34 G	20882043.83	20882043.94	20882044.05	0.2666	0.0568
Mercury	52463-07-06 01:41 G	20882963.54	20882963.57	20882963.60	0.2668	0.2601
Mercury	52473-12-31 04:05 G	20886794.56	20886794.67	20886794.77	0.2665	0.0627
Mercury	52483-06-30 16:19 G	20890263.10	20890263.18	20890263.25	0.2665	0.2318
Mercury	52487-01-02 21:22 G	20891545.31	20891545.39	20891545.47	0.2664	0.1805
Mercury	52493-12-26 21:50 G	20894095.32	20894095.41	20894095.50	0.2667	0.1542
Mercury	52496-07-03 00:14 G	20895014.35	20895014.51	20895014.66	0.2667	0.0357
Venus	52501-09-05 04:48 G	20896903.55	20896903.70	20896903.85	0.2691	0.0975
Mercury	52506-12-30 15:22 G	20898846.03	20898846.14	20898846.25	0.2666	0.0337
Mercury	52520-01-02 08:53 G	20903596.76	20903596.87	20903596.97	0.2665	0.0858
Mercury	52526-12-26 08:53 G	20906146.84	20906146.87	20906146.91	0.2668	0.2530
Mercury	52529-07-01 23:02 G	20907065.35	20907065.46	20907065.57	0.2665	0.1835
Mercury	52533-01-04 02:10 G	20908347.52	20908347.59	20908347.66	0.2664	0.2026
Mercury	52539-12-29 02:38 G	20910897.51	20910897.61	20910897.70	0.2667	0.1310
Mercury	52542-07-05 06:58 G	20911816.64	20911816.79	20911816.94	0.2667	0.0837
Mercury	52552-12-30 20:10 G	20915648.23	20915648.34	20915648.45	0.2666	0.0108
Mercury	52566-01-02 13:41 G	20920398.97	20920399.07	20920399.16	0.2665	0.1086
Mercury	52572-12-26 13:41 G	20922949.02	20922949.07	20922949.13	0.2668	0.2298
Mercury	52575-07-03 05:46 G	20923867.60	20923867.74	20923867.87	0.2665	0.1367
Mercury	52579-01-05 06:58 G	20925149.73	20925149.79	20925149.84	0.2664	0.2252
Mercury	52585-12-29 07:26 G	20927699.71	20927699.81	20927699.91	0.2667	0.1078
Mercury	52588-07-05 13:41 G	20928618.94	20928619.07	20928619.21	0.2667	0.1331
Mercury	52599-01-01 00:58 G	20932450.43	20932450.54	20932450.65	0.2666	0.0127
Mercury	52612-01-04 18:14 G	20937201.17	20937201.26	20937201.36	0.2664	0.1308
Mercury	52618-12-28 18:43 G	20939751.21	20939751.28	20939751.34	0.2668	0.2064
Mercury	52621-07-04 12:29 G	20940669.87	20940670.02	20940670.17	0.2666	0.0886
Mercury	52625-01-06 11:46 G	20941951.95	20941951.99	20941952.03	0.2663	0.2474
Venus	52631-03-06 22:34 G	20944202.28	20944202.44	20944202.59	0.2641	0.0652
Mercury	52631-12-31 12:14 G	20944501.91	20944502.01	20944502.11	0.2667	0.0848

Mercury	52634-07-07 20:24 G	20945421.24	20945421.35	20945421.47	0.2667	0.1808
Venus	52639-03-04 15:07 G	20947122.10	20947122.13	20947122.16	0.2641	0.2593
Mercury	52645-01-02 05:46 G	20949252.63	20949252.74	20949252.85	0.2665	0.0353
Mercury	52658-01-04 23:02 G	20954003.38	20954003.46	20954003.55	0.2664	0.1533
Mercury	52664-12-28 23:31 G	20956553.40	20956553.48	20956553.56	0.2668	0.1828
Mercury	52667-07-05 19:12 G	20957472.14	20957472.30	20957472.46	0.2666	0.0413
Mercury	52677-12-31 17:02 G	20961304.10	20961304.21	20961304.32	0.2666	0.0617
Mercury	52680-07-08 03:22 G	20962223.56	20962223.64	20962223.72	0.2667	0.2302
Mercury	52691-01-03 10:34 G	20966054.83	20966054.94	20966055.04	0.2665	0.0583
Mercury	52700-07-03 18:14 G	20969523.22	20969523.26	20969523.30	0.2665	0.2557
Mercury	52704-01-07 03:50 G	20970805.58	20970805.66	20970805.74	0.2664	0.1755
Mercury	52710-12-31 04:19 G	20973355.59	20973355.68	20973355.76	0.2667	0.1596
Mercury	52713-07-07 01:55 G	20974274.42	20974274.58	20974274.74	0.2666	0.0099
Mercury	52724-01-02 21:50 G	20978106.30	20978106.41	20978106.52	0.2666	0.0392
Mercury	52737-01-04 15:22 G	20982857.03	20982857.14	20982857.24	0.2665	0.0809
Mercury	52743-12-29 15:22 G	20985407.12	20985407.14	20985407.17	0.2669	0.2582
Venus	52744-09-07 04:19 G	20985659.53	20985659.68	20985659.83	0.2691	0.0801
Mercury	52746-07-05 00:58 G	20986325.44	20986325.54	20986325.64	0.2665	0.2094
Mercury	52750-01-07 08:38 G	20987607.79	20987607.86	20987607.93	0.2664	0.1979
Mercury	52756-12-31 09:07 G	20990157.78	20990157.88	20990157.97	0.2667	0.1363
Mercury	52759-07-08 08:53 G	20991076.71	20991076.87	20991077.02	0.2666	0.0567
Mercury	52770-01-03 02:38 G	20994908.50	20994908.61	20994908.72	0.2666	0.0170
Mercury	52783-01-05 19:55 G	20999659.23	20999659.33	20999659.43	0.2665	0.1035
Mercury	52789-12-29 20:10 G	21002209.29	21002209.34	21002209.39	0.2668	0.2345
Mercury	52792-07-05 07:41 G	21003127.70	21003127.82	21003127.95	0.2665	0.1616
Mercury	52796-01-08 13:26 G	21004410.00	21004410.06	21004410.12	0.2664	0.2199
Mercury	52803-01-01 13:55 G	21006959.98	21006960.08	21006960.18	0.2667	0.1132
Mercury	52805-07-08 15:36 G	21007879.00	21007879.15	21007879.29	0.2666	0.1043
Mercury	52816-01-04 07:26 G	21011710.70	21011710.81	21011710.92	0.2666	0.0108
Mercury	52829-01-06 00:43 G	21016461.44	21016461.53	21016461.63	0.2665	0.1258

Mercury	52835-12-31 00:58 G	21019011.48	21019011.54	21019011.61	0.2668	0.2113
Mercury	52838-07-06 14:24 G	21019929.96	21019930.10	21019930.24	0.2665	0.1152
Mercury	52842-01-08 18:14 G	21021212.22	21021212.26	21021212.30	0.2664	0.2423
Mercury	52849-01-01 18:43 G	21023762.17	21023762.28	21023762.38	0.2667	0.0897
Mercury	52851-07-09 22:19 G	21024681.30	21024681.43	21024681.56	0.2667	0.1528
Mercury	52862-01-04 12:14 G	21028512.90	21028513.01	21028513.11	0.2666	0.0311
Venus	52874-03-08 01:12 G	21032958.40	21032958.55	21032958.70	0.2641	0.0804
Mercury	52875-01-07 05:31 G	21033263.64	21033263.73	21033263.82	0.2665	0.1482
Mercury	52881-12-31 05:46 G	21035813.67	21035813.74	21035813.82	0.2668	0.1880
Venus	52882-03-05 18:00 G	21035878.19	21035878.25	21035878.30	0.2641	0.2446
Mercury	52884-07-06 21:07 G	21036732.23	21036732.38	21036732.53	0.2665	0.0670
Mercury	52888-01-09 23:02 G	21038014.45	21038014.46	21038014.47	0.2664	0.2642
Mercury	52895-01-02 23:31 G	21040564.37	21040564.48	21040564.58	0.2667	0.0673
Mercury	52897-07-10 05:02 G	21041483.61	21041483.71	21041483.82	0.2667	0.2011
Mercury	52908-01-06 17:02 G	21045315.10	21045315.21	21045315.31	0.2666	0.0532
Mercury	52921-01-08 10:19 G	21050065.85	21050065.93	21050066.02	0.2665	0.1707
Mercury	52928-01-02 10:34 G	21052615.86	21052615.94	21052616.03	0.2668	0.1650
Mercury	52930-07-09 03:50 G	21053534.50	21053534.66	21053534.82	0.2666	0.0199
Mercury	52941-01-04 04:19 G	21057366.57	21057366.68	21057366.78	0.2667	0.0444
Mercury	52943-07-12 12:00 G	21058285.95	21058286.00	21058286.05	0.2667	0.2502
Mercury	52954-01-06 21:50 G	21062117.30	21062117.41	21062117.51	0.2666	0.0758
Mercury	52960-12-30 21:50 G	21064667.40	21064667.41	21064667.42	0.2669	0.2631
Mercury	52963-07-07 02:53 G	21065585.55	21065585.62	21065585.70	0.2664	0.2343
Mercury	52967-01-09 15:07 G	21066868.06	21066868.13	21066868.21	0.2664	0.1928
Mercury	52974-01-02 15:22 G	21069418.05	21069418.14	21069418.24	0.2668	0.1416
Mercury	52976-07-09 10:34 G	21070336.78	21070336.94	21070337.10	0.2666	0.0285
Mercury	52987-01-05 09:07 G	21074168.77	21074168.88	21074168.99	0.2667	0.0231
Venus	52987-09-09 04:19 G	21074415.53	21074415.68	21074415.84	0.2691	0.0675
Mercury	53000-01-08 02:38 G	21078919.51	21078919.61	21078919.71	0.2665	0.0981

54TH MILLENNIUM CE

This is a list of transits visible from Earth in the 54th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	53007-01-02 02:38	G	21081469.56	21081469.61	21081469.66	0.2669	0.2401	
Mercury	53009-07-08 09:36	G	21082387.79	21082387.90	21082388.01	0.2664	0.1876	
Mercury	53013-01-10 19:55	G	21083670.27	21083670.33	21083670.39	0.2664	0.2150	
Mercury	53020-01-04 20:10	G	21086220.25	21086220.34	21086220.44	0.2668	0.1185	
Mercury	53022-07-11 17:17	G	21087139.07	21087139.22	21087139.38	0.2666	0.0765	
Mercury	53033-01-06 13:55	G	21090970.97	21090971.08	21090971.19	0.2666	0.0086	
Mercury	53046-01-09 07:12	G	21095721.71	21095721.80	21095721.90	0.2665	0.1207	
Mercury	53053-01-02 07:26	G	21098271.75	21098271.81	21098271.87	0.2669	0.2163	
Mercury	53055-07-09 16:19	G	21099190.05	21099190.18	21099190.32	0.2665	0.1401	
Mercury	53059-01-12 00:43	G	21100472.48	21100472.53	21100472.58	0.2664	0.2369	
Mercury	53066-01-05 00:58	G	21103022.44	21103022.54	21103022.65	0.2667	0.0958	
Mercury	53068-07-12 00:14	G	21103941.37	21103941.51	21103941.65	0.2666	0.1245	
Mercury	53079-01-07 18:43	G	21107773.17	21107773.28	21107773.39	0.2666	0.0258	
Mercury	53092-01-10 12:00	G	21112523.91	21112524.00	21112524.10	0.2665	0.1431	
Mercury	53099-01-03 12:14	G	21115073.94	21115074.01	21115074.08	0.2669	0.1932	
Mercury	53101-07-10 23:02	G	21115992.31	21115992.46	21115992.61	0.2665	0.0935	
Mercury	53105-01-13 05:31	G	21117274.71	21117274.73	21117274.75	0.2664	0.2592	
Mercury	53112-01-07 06:00	G	21119824.64	21119824.75	21119824.85	0.2667	0.0730	
Mercury	53114-07-14 06:58	G	21120743.67	21120743.79	21120743.91	0.2666	0.1730	
Venus	53117-03-11 03:50	G	21121714.52	21121714.66	21121714.81	0.2641	0.0950	

Mercury	53125-01-08 23:31 G	21124575.37	21124575.48	21124575.58	0.2666	0.0482
Venus	53125-03-08 20:24 G	21124634.28	21124634.35	21124634.43	0.2642	0.2310
Mercury	53138-01-11 16:48 G	21129326.12	21129326.20	21129326.29	0.2665	0.1650
Mercury	53145-01-04 17:02 G	21131876.13	21131876.21	21131876.29	0.2668	0.1696
Mercury	53147-07-12 05:46 G	21132794.59	21132794.74	21132794.90	0.2665	0.0465
Mercury	53158-01-07 10:48 G	21136626.84	21136626.95	21136627.05	0.2667	0.0504
Mercury	53160-07-14 13:41 G	21137545.98	21137546.07	21137546.16	0.2666	0.2203
Mercury	53171-01-10 04:19 G	21141377.57	21141377.68	21141377.78	0.2666	0.0708
Mercury	53180-07-09 05:02 G	21144845.68	21144845.71	21144845.74	0.2664	0.2591
Mercury	53184-01-12 21:36 G	21146128.33	21146128.40	21146128.48	0.2665	0.1873
Mercury	53191-01-05 21:50 G	21148678.32	21148678.41	21148678.50	0.2668	0.1466
Mercury	53193-07-12 12:29 G	21149596.86	21149597.02	21149597.18	0.2665	0.0033
Mercury	53204-01-08 15:36 G	21153429.04	21153429.15	21153429.26	0.2667	0.0273
Mercury	53217-01-10 08:53 G	21158179.77	21158179.87	21158179.98	0.2666	0.0931
Mercury	53224-01-04 08:53 G	21160729.83	21160729.87	21160729.92	0.2669	0.2454
Mercury	53226-07-10 11:46 G	21161647.89	21161647.99	21161648.08	0.2664	0.2126
Mercury	53230-01-13 02:24 G	21162930.53	21162930.60	21162930.67	0.2665	0.2097
Venus	53230-09-11 03:50 G	21163171.51	21163171.66	21163171.82	0.2690	0.0523
Mercury	53237-01-06 02:38 G	21165480.52	21165480.61	21165480.71	0.2668	0.1236
Mercury	53239-07-13 19:12 G	21166399.15	21166399.30	21166399.46	0.2665	0.0485
Mercury	53250-01-08 20:24 G	21170231.24	21170231.35	21170231.46	0.2667	0.0105
Mercury	53263-01-11 13:41 G	21174981.98	21174982.07	21174982.17	0.2666	0.1158
Mercury	53270-01-04 13:55 G	21177532.02	21177532.08	21177532.13	0.2669	0.2222
Mercury	53272-07-10 18:14 G	21178450.14	21178450.26	21178450.39	0.2664	0.1667
Mercury	53276-01-14 07:12 G	21179732.75	21179732.80	21179732.85	0.2665	0.2320
Mercury	53283-01-07 07:26 G	21182282.71	21182282.81	21182282.91	0.2668	0.1007
Mercury	53285-07-14 01:55 G	21183201.43	21183201.58	21183201.73	0.2666	0.0959
Mercury	53296-01-10 00:58 G	21187033.44	21187033.54	21187033.65	0.2667	0.0221
Mercury	53309-01-12 18:29 G	21191784.18	21191784.27	21191784.37	0.2665	0.1375
Mercury	53316-01-06 18:43 G	21194334.21	21194334.28	21194334.35	0.2669	0.1985

Mercury	53318-07-13 01:12 G	21195252.41	21195252.55	21195252.69	0.2664	0.1193
Mercury	53322-01-15 12:00 G	21196534.97	21196535.00	21196535.03	0.2664	0.2542
Mercury	53329-01-08 12:14 G	21199084.91	21199085.01	21199085.12	0.2668	0.0778
Mercury	53331-07-16 08:38 G	21200003.73	21200003.86	21200004.00	0.2666	0.1435
Mercury	53342-01-11 05:46 G	21203835.64	21203835.74	21203835.85	0.2667	0.0425
Mercury	53355-01-13 23:17 G	21208586.39	21208586.47	21208586.56	0.2665	0.1599
Venus	53360-03-12 06:29 G	21210470.63	21210470.77	21210470.92	0.2642	0.1076
Mercury	53362-01-06 23:31 G	21211136.40	21211136.48	21211136.56	0.2669	0.1755
Mercury	53364-07-13 07:41 G	21212054.67	21212054.82	21212054.98	0.2664	0.0731
Venus	53368-03-09 23:02 G	21213390.37	21213390.46	21213390.55	0.2642	0.2165
Mercury	53375-01-09 17:02 G	21215887.11	21215887.21	21215887.32	0.2668	0.0550
Mercury	53377-07-16 15:36 G	21216806.04	21216806.15	21216806.26	0.2666	0.1919
Mercury	53388-01-12 10:34 G	21220637.84	21220637.94	21220638.05	0.2666	0.0649
Mercury	53401-01-15 04:05 G	21225388.59	21225388.67	21225388.75	0.2665	0.1821
Mercury	53408-01-09 04:19 G	21227938.59	21227938.68	21227938.77	0.2669	0.1520
Mercury	53410-07-15 14:24 G	21228856.95	21228857.10	21228857.26	0.2665	0.0262
Mercury	53421-01-10 21:50 G	21232689.30	21232689.41	21232689.52	0.2667	0.0323
Mercury	53423-07-18 22:19 G	21233608.36	21233608.43	21233608.50	0.2666	0.2398
Mercury	53434-01-13 15:22 G	21237440.04	21237440.14	21237440.25	0.2666	0.0876
Mercury	53441-01-06 15:22 G	21239990.11	21239990.14	21239990.18	0.2670	0.2507
Mercury	53443-07-13 13:41 G	21240908.00	21240908.07	21240908.14	0.2663	0.2375
Mercury	53447-01-16 08:53 G	21242190.80	21242190.87	21242190.94	0.2665	0.2045
Mercury	53454-01-09 09:07 G	21244740.78	21244740.88	21244740.98	0.2669	0.1290
Mercury	53456-07-15 21:07 G	21245659.23	21245659.38	21245659.54	0.2665	0.0223
Mercury	53467-01-12 02:38 G	21249491.50	21249491.61	21249491.72	0.2667	0.0099
Venus	53473-09-13 03:50 G	21251927.50	21251927.66	21251927.82	0.2690	0.0378
Mercury	53480-01-14 20:10 G	21254242.24	21254242.34	21254242.44	0.2666	0.1097
Mercury	53487-01-07 20:10 G	21256792.29	21256792.34	21256792.40	0.2669	0.2273
Mercury	53489-07-13 20:24 G	21257710.24	21257710.35	21257710.46	0.2664	0.1913
Mercury	53493-01-16 13:41 G	21258993.02	21258993.07	21258993.13	0.2665	0.2264

Mercury	53500-01-10 13:55 G	21261542.98	21261543.08	21261543.18	0.2668	0.1057
Mercury	53502-07-18 03:50 G	21262461.51	21262461.66	21262461.82	0.2665	0.0688
Mercury	53513-01-13 07:26 G	21266293.70	21266293.81	21266293.92	0.2667	0.0147
Mercury	53526-01-16 00:58 G	21271044.45	21271044.54	21271044.64	0.2666	0.1325
Mercury	53533-01-09 00:58 G	21273594.47	21273594.54	21273594.61	0.2669	0.2044
Mercury	53535-07-16 03:07 G	21274512.49	21274512.63	21274512.76	0.2664	0.1459
Mercury	53539-01-18 18:29 G	21275795.23	21275795.27	21275795.31	0.2665	0.2486
Mercury	53546-01-11 18:43 G	21278345.18	21278345.28	21278345.38	0.2668	0.0827
Mercury	53548-07-18 10:34 G	21279263.80	21279263.94	21279264.09	0.2665	0.1156
Mercury	53559-01-14 12:14 G	21283095.90	21283096.01	21283096.12	0.2667	0.0374
Mercury	53572-01-17 05:46 G	21287846.65	21287846.74	21287846.83	0.2666	0.1547
Mercury	53579-01-10 05:46 G	21290396.66	21290396.74	21290396.82	0.2669	0.1809
Mercury	53581-07-16 09:50 G	21291314.76	21291314.91	21291315.05	0.2664	0.0993
Mercury	53592-01-12 23:31 G	21295147.37	21295147.48	21295147.59	0.2668	0.0602
Mercury	53594-07-19 17:17 G	21296066.10	21296066.22	21296066.35	0.2665	0.1628
Venus	53603-03-15 09:07 G	21299226.74	21299226.88	21299227.02	0.2642	0.1218
Mercury	53605-01-14 17:02 G	21299898.11	21299898.21	21299898.32	0.2667	0.0598
Venus	53611-03-13 01:41 G	21302146.47	21302146.57	21302146.67	0.2642	0.2037
Mercury	53618-01-17 10:34 G	21304648.86	21304648.94	21304649.02	0.2666	0.1771
Mercury	53625-01-10 10:34 G	21307198.86	21307198.94	21307199.03	0.2669	0.1582
Mercury	53627-07-17 16:34 G	21308117.03	21308117.19	21308117.34	0.2664	0.0526
Mercury	53638-01-13 04:19 G	21311949.57	21311949.68	21311949.79	0.2668	0.0371
Mercury	53640-07-20 00:14 G	21312868.41	21312868.51	21312868.60	0.2666	0.2106
Mercury	53651-01-15 21:50 G	21316700.31	21316700.41	21316700.52	0.2667	0.0820
Mercury	53658-01-08 21:50 G	21319250.38	21319250.41	21319250.43	0.2670	0.2565
Mercury	53660-07-14 15:50 G	21320168.13	21320168.16	21320168.19	0.2663	0.2611
Mercury	53664-01-18 15:22 G	21321451.07	21321451.14	21321451.21	0.2665	0.1987
Mercury	53671-01-11 15:22 G	21324001.05	21324001.14	21324001.24	0.2669	0.1349
Mercury	53673-07-17 23:17 G	21324919.31	21324919.47	21324919.63	0.2664	0.0061
Mercury	53684-01-14 09:07 G	21328751.77	21328751.88	21328751.99	0.2668	0.0144

Mercury	53686-07-21 06:58 G	21329670.75	21329670.79	21329670.82	0.2666	0.2582
Mercury	53697-01-16 02:38 G	21333502.51	21333502.61	21333502.71	0.2667	0.1043
Mercury	53704-01-11 02:38 G	21336052.56	21336052.61	21336052.66	0.2670	0.2331
Mercury	53706-07-16 22:34 G	21336970.35	21336970.44	21336970.53	0.2663	0.2160
Mercury	53710-01-19 20:10 G	21338253.28	21338253.34	21338253.40	0.2665	0.2210
Venus	53716-09-15 03:36 G	21340683.49	21340683.65	21340683.80	0.2690	0.0245
Mercury	53717-01-12 20:24 G	21340803.25	21340803.35	21340803.45	0.2669	0.1119
Mercury	53719-07-20 06:00 G	21341721.59	21341721.75	21341721.90	0.2664	0.0420
Mercury	53730-01-15 13:55 G	21345553.97	21345554.08	21345554.19	0.2668	0.0091
Mercury	53743-01-18 07:26 G	21350304.72	21350304.81	21350304.91	0.2666	0.1265
Mercury	53750-01-11 07:26 G	21352854.74	21352854.81	21352854.88	0.2670	0.2096
Mercury	53752-07-17 05:17 G	21353772.60	21353772.72	21353772.84	0.2663	0.1700
Mercury	53756-01-21 00:58 G	21355055.50	21355055.54	21355055.58	0.2665	0.2429
Mercury	53763-01-14 01:12 G	21357605.44	21357605.55	21357605.65	0.2669	0.0887
Mercury	53765-07-20 12:29 G	21358523.87	21358524.02	21358524.17	0.2665	0.0883
Mercury	53776-01-16 18:43 G	21362356.17	21362356.28	21362356.39	0.2667	0.0311
Mercury	53789-01-18 12:14 G	21367106.92	21367107.01	21367107.10	0.2666	0.1490
Mercury	53796-01-12 12:14 G	21369656.93	21369657.01	21369657.09	0.2670	0.1864
Mercury	53798-07-18 11:46 G	21370574.85	21370574.99	21370575.13	0.2663	0.1243
Mercury	53802-01-22 05:46 G	21371857.73	21371857.74	21371857.74	0.2665	0.2650
Mercury	53809-01-15 06:00 G	21374407.64	21374407.75	21374407.85	0.2668	0.0656
Mercury	53811-07-22 19:26 G	21375326.17	21375326.31	21375326.44	0.2665	0.1353
Mercury	53822-01-17 23:31 G	21379158.37	21379158.48	21379158.59	0.2667	0.0539
Mercury	53835-01-20 17:02 G	21383909.13	21383909.21	21383909.29	0.2666	0.1709
Mercury	53842-01-13 17:02 G	21386459.12	21386459.21	21386459.30	0.2669	0.1631
Mercury	53844-07-19 18:29 G	21387377.12	21387377.27	21387377.42	0.2664	0.0784
Venus	53846-03-17 11:31 G	21387982.85	21387982.98	21387983.12	0.2642	0.1346
Venus	53854-03-15 04:05 G	21390902.56	21390902.67	21390902.78	0.2643	0.1910
Mercury	53855-01-16 10:48 G	21391209.84	21391209.95	21391210.06	0.2668	0.0427
Mercury	53857-07-23 01:55 G	21392128.47	21392128.58	21392128.70	0.2665	0.1817

Mercury	53868-01-19 04:19 G	21395960.58	21395960.68	21395960.79	0.2667	0.0761
Mercury	53875-01-12 04:05 G	21398510.65	21398510.67	21398510.69	0.2671	0.2622
Mercury	53881-01-20 21:50 G	21400711.34	21400711.41	21400711.48	0.2666	0.1935
Mercury	53888-01-14 21:50 G	21403261.32	21403261.41	21403261.50	0.2669	0.1402
Mercury	53890-07-21 01:12 G	21404179.39	21404179.55	21404179.70	0.2664	0.0338
Mercury	53901-01-17 15:36 G	21408012.04	21408012.15	21408012.26	0.2668	0.0200
Mercury	53903-07-25 08:38 G	21408930.78	21408930.86	21408930.94	0.2665	0.2289
Mercury	53914-01-20 09:07 G	21412762.78	21412762.88	21412762.98	0.2667	0.0987
Mercury	53921-01-13 08:53 G	21415312.83	21415312.87	21415312.92	0.2670	0.2388
Mercury	53923-07-20 00:43 G	21416230.46	21416230.53	21416230.59	0.2663	0.2398
Mercury	53927-01-23 02:38 G	21417513.55	21417513.61	21417513.67	0.2666	0.2154
Mercury	53934-01-16 02:38 G	21420063.51	21420063.61	21420063.71	0.2669	0.1171
Mercury	53936-07-22 07:55 G	21420981.67	21420981.83	21420981.98	0.2664	0.0155
Mercury	53947-01-18 20:24 G	21424814.24	21424814.35	21424814.46	0.2668	0.0063
Venus	53959-09-18 03:22 G	21429439.48	21429439.64	21429439.80	0.2689	0.0103
Mercury	53960-01-21 13:55 G	21429564.98	21429565.08	21429565.18	0.2667	0.1211
Mercury	53967-01-14 13:41 G	21432115.01	21432115.07	21432115.14	0.2670	0.2156
Mercury	53969-07-20 07:12 G	21433032.70	21433032.80	21433032.91	0.2663	0.1948
Mercury	53973-01-23 07:26 G	21434315.76	21434315.81	21434315.86	0.2666	0.2377
Mercury	53980-01-17 07:26 G	21436865.71	21436865.81	21436865.92	0.2669	0.0946
Mercury	53982-07-23 14:38 G	21437783.95	21437784.11	21437784.26	0.2664	0.0612
Mercury	53993-01-19 01:12 G	21441616.44	21441616.55	21441616.66	0.2668	0.0263

55TH MILLENNIUM CE

This is a list of transits visible from Earth in the 55th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	54006-01-21 18:43	G	21446367.19	21446367.28	21446367.37	0.2667	0.1433	
Mercury	54013-01-14 18:43	G	21448917.20	21448917.28	21448917.35	0.2670	0.1923	
Mercury	54015-07-21 13:55	G	21449834.95	21449835.08	21449835.21	0.2663	0.1491	
Mercury	54019-01-24 12:14	G	21451117.99	21451118.01	21451118.03	0.2666	0.2594	
Mercury	54026-01-17 12:14	G	21453667.91	21453668.01	21453668.12	0.2669	0.0716	
Mercury	54028-07-23 21:07	G	21454586.24	21454586.38	21454586.53	0.2664	0.1074	
Mercury	54039-01-20 06:00	G	21458418.64	21458418.75	21458418.85	0.2668	0.0483	
Mercury	54052-01-22 23:31	G	21463169.39	21463169.48	21463169.56	0.2667	0.1656	
Mercury	54059-01-15 23:31	G	21465719.39	21465719.48	21465719.56	0.2670	0.1689	
Mercury	54061-07-21 20:24	G	21466637.21	21466637.35	21466637.50	0.2663	0.1045	
Mercury	54072-01-18 17:02	G	21470470.11	21470470.21	21470470.32	0.2669	0.0492	
Mercury	54074-07-25 03:50	G	21471388.54	21471388.66	21471388.79	0.2665	0.1541	
Mercury	54085-01-20 10:48	G	21475220.84	21475220.95	21475221.05	0.2668	0.0710	
Venus	54089-03-18 14:10	G	21476738.96	21476739.09	21476739.22	0.2642	0.1474	
Venus	54097-03-16 06:43	G	21479658.66	21479658.78	21479658.90	0.2643	0.1763	
Mercury	54098-01-23 04:19	G	21479971.60	21479971.68	21479971.75	0.2666	0.1876	
Mercury	54105-01-17 04:19	G	21482521.59	21482521.68	21482521.77	0.2670	0.1457	
Mercury	54107-07-24 03:07	G	21483439.48	21483439.63	21483439.79	0.2663	0.0586	
Mercury	54118-01-19 21:50	G	21487272.30	21487272.41	21487272.52	0.2669	0.0269	
Mercury	54120-07-26 10:34	G	21488190.84	21488190.94	21488191.05	0.2665	0.2006	
Mercury	54131-01-22 15:36	G	21492023.05	21492023.15	21492023.25	0.2667	0.0932	
Mercury	54138-01-15 15:22	G	21494573.10	21494573.14	21494573.18	0.2671	0.2446	
Mercury	54140-07-21 02:38	G	21495490.60	21495490.61	21495490.63	0.2662	0.2648	
Mercury	54144-01-25 09:07	G	21496773.81	21496773.88	21496773.94	0.2666	0.2101	
Mercury	54151-01-18 09:07	G	21499323.78	21499323.88	21499323.98	0.2670	0.1229	
Mercury	54153-07-24 09:50	G	21500241.75	21500241.91	21500242.07	0.2663	0.0123	
Mercury	54164-01-21 02:38	G	21504074.50	21504074.61	21504074.72	0.2668	0.0111	

Mercury	54166-07-27 17:31 G	21504993.17	21504993.23	21504993.28	0.2665	0.2480
Mercury	54177-01-22 20:24 G	21508825.25	21508825.35	21508825.45	0.2667	0.1158
Mercury	54184-01-16 20:10 G	21511375.28	21511375.34	21511375.40	0.2671	0.2211
Mercury	54186-07-22 09:22 G	21512292.80	21512292.89	21512292.98	0.2662	0.2194
Mercury	54190-01-25 13:55 G	21513576.03	21513576.08	21513576.13	0.2666	0.2320
Mercury	54197-01-18 13:55 G	21516125.98	21516126.08	21516126.18	0.2669	0.0999
Mercury	54199-07-25 16:34 G	21517044.03	21517044.19	21517044.35	0.2664	0.0334
Venus	54202-09-20 03:07 G	21518195.47	21518195.63	21518195.79	0.2689	0.0064
Mercury	54210-01-22 07:26 G	21520876.71	21520876.81	21520876.92	0.2668	0.0226
Mercury	54223-01-25 01:12 G	21525627.46	21525627.55	21525627.64	0.2667	0.1378
Mercury	54230-01-18 00:58 G	21528177.47	21528177.54	21528177.61	0.2670	0.1979
Mercury	54232-07-23 16:05 G	21529095.05	21529095.17	21529095.28	0.2662	0.1748
Mercury	54236-01-27 18:43 G	21530378.25	21530378.28	21530378.31	0.2666	0.2544
Mercury	54243-01-20 18:43 G	21532928.17	21532928.28	21532928.38	0.2669	0.0767
Mercury	54245-07-26 23:17 G	21533846.32	21533846.47	21533846.62	0.2664	0.0798
Mercury	54256-01-23 12:29 G	21537678.91	21537679.02	21537679.12	0.2668	0.0439
Mercury	54269-01-25 06:00 G	21542429.66	21542429.75	21542429.84	0.2667	0.1602
Mercury	54276-01-19 05:46 G	21544979.66	21544979.74	21544979.82	0.2670	0.1748
Mercury	54278-07-24 22:48 G	21545897.31	21545897.45	21545897.58	0.2663	0.1285
Mercury	54289-01-20 23:31 G	21549730.37	21549730.48	21549730.59	0.2669	0.0541
Mercury	54291-07-28 06:00 G	21550648.61	21550648.75	21550648.89	0.2664	0.1262
Mercury	54302-01-24 17:17 G	21554481.11	21554481.22	21554481.32	0.2668	0.0656
Mercury	54315-01-27 10:48 G	21559231.87	21559231.95	21559232.03	0.2667	0.1824
Mercury	54322-01-20 10:34 G	21561781.85	21561781.94	21561782.03	0.2670	0.1517
Mercury	54324-07-26 05:17 G	21562699.57	21562699.72	21562699.87	0.2663	0.0833
Venus	54332-03-21 16:34 G	21565495.07	21565495.19	21565495.32	0.2643	0.1625
Mercury	54335-01-23 04:19 G	21566532.57	21566532.68	21566532.79	0.2669	0.0314
Mercury	54337-07-29 12:43 G	21567450.91	21567451.03	21567451.15	0.2664	0.1736
Venus	54340-03-19 08:53 G	21568414.75	21568414.87	21568415.00	0.2644	0.1650
Mercury	54348-01-25 22:05 G	21571283.31	21571283.42	21571283.52	0.2668	0.0880

Mercury	54355-01-18 21:36 G	21573833.37	21573833.40	21573833.44	0.2671	0.2500
Mercury	54361-01-27 15:36 G	21576034.08	21576034.15	21576034.22	0.2667	0.2044
Mercury	54368-01-21 15:22 G	21578584.05	21578584.14	21578584.24	0.2670	0.1286
Mercury	54370-07-27 12:00 G	21579501.84	21579502.00	21579502.16	0.2663	0.0378
Mercury	54381-01-23 09:07 G	21583334.77	21583334.88	21583334.99	0.2669	0.0091
Mercury	54383-07-30 19:26 G	21584253.22	21584253.31	21584253.39	0.2664	0.2194
Mercury	54394-01-26 02:53 G	21588085.52	21588085.62	21588085.72	0.2668	0.1100
Mercury	54401-01-19 02:24 G	21590635.55	21590635.60	21590635.66	0.2671	0.2271
Mercury	54403-07-25 11:31 G	21591552.92	21591552.98	21591553.05	0.2662	0.2431
Mercury	54407-01-28 20:24 G	21592836.29	21592836.35	21592836.40	0.2667	0.2266
Mercury	54414-01-21 20:24 G	21595386.24	21595386.35	21595386.45	0.2670	0.1057
Mercury	54416-07-27 18:43 G	21596304.12	21596304.28	21596304.43	0.2663	0.0102
Mercury	54427-01-24 13:55 G	21600136.97	21600137.08	21600137.19	0.2669	0.0167
Mercury	54440-01-27 07:41 G	21604887.72	21604887.82	21604887.91	0.2668	0.1327
Venus	54445-09-21 03:07 G	21606951.47	21606951.63	21606951.79	0.2688	0.0153
Mercury	54447-01-20 07:12 G	21607437.73	21607437.80	21607437.87	0.2671	0.2038
Mercury	54449-07-25 18:14 G	21608355.16	21608355.26	21608355.36	0.2662	0.1978
Mercury	54453-01-29 01:12 G	21609638.51	21609638.55	21609638.58	0.2666	0.2484
Mercury	54460-01-23 01:12 G	21612188.44	21612188.55	21612188.65	0.2670	0.0829
Mercury	54462-07-29 01:12 G	21613106.40	21613106.55	21613106.71	0.2663	0.0537
Mercury	54473-01-24 18:43 G	21616939.18	21616939.28	21616939.39	0.2669	0.0384
Mercury	54486-01-27 12:29 G	21621689.93	21621690.02	21621690.10	0.2667	0.1549
Mercury	54493-01-20 12:14 G	21624239.92	21624240.01	21624240.09	0.2671	0.1809
Mercury	54495-07-27 00:43 G	21625157.41	21625157.53	21625157.66	0.2662	0.1540
Mercury	54506-01-24 06:00 G	21628990.64	21628990.75	21628990.86	0.2670	0.0597
Mercury	54508-07-30 07:55 G	21629908.69	21629908.83	21629908.98	0.2663	0.0995
Mercury	54519-01-26 23:31 G	21633741.38	21633741.48	21633741.59	0.2668	0.0604
Mercury	54532-01-29 17:17 G	21638492.13	21638492.22	21638492.30	0.2667	0.1771
Mercury	54539-01-22 17:02 G	21641042.12	21641042.21	21641042.30	0.2671	0.1573
Mercury	54541-07-28 07:26 G	21641959.67	21641959.81	21641959.96	0.2662	0.1083

Mercury	54552-01-25 10:48 G	21645792.84	21645792.95	21645793.06	0.2669	0.0370
Mercury	54554-07-31 14:38 G	21646710.98	21646711.11	21646711.24	0.2664	0.1446
Mercury	54565-01-27 04:19 G	21650543.58	21650543.68	21650543.79	0.2668	0.0821
Mercury	54572-01-21 03:50 G	21653093.64	21653093.66	21653093.69	0.2672	0.2566
Venus	54575-03-23 19:12 G	21654251.18	21654251.30	21654251.42	0.2643	0.1750
Mercury	54578-01-29 22:05 G	21655294.34	21655294.42	21655294.49	0.2667	0.1990
Venus	54583-03-21 11:46 G	21657170.86	21657170.99	21657171.12	0.2644	0.1479
Mercury	54585-01-22 21:50 G	21657844.32	21657844.41	21657844.50	0.2671	0.1341
Mercury	54587-07-29 14:10 G	21658761.93	21658762.09	21658762.24	0.2662	0.0638
Mercury	54598-01-25 15:36 G	21662595.04	21662595.15	21662595.26	0.2669	0.0139
Mercury	54600-08-01 21:22 G	21663513.28	21663513.39	21663513.50	0.2664	0.1916
Mercury	54611-01-29 09:07 G	21667345.78	21667345.88	21667345.98	0.2668	0.1044
Mercury	54618-01-22 08:53 G	21669895.82	21669895.87	21669895.92	0.2672	0.2327
Mercury	54620-07-27 13:55 G	21670813.07	21670813.08	21670813.09	0.2661	0.2651
Mercury	54624-02-01 02:38 G	21672096.56	21672096.61	21672096.67	0.2667	0.2211
Mercury	54631-01-25 02:38 G	21674646.51	21674646.61	21674646.71	0.2670	0.1112
Mercury	54633-07-30 20:53 G	21675564.21	21675564.37	21675564.52	0.2662	0.0192
Mercury	54644-01-27 20:24 G	21679397.24	21679397.35	21679397.46	0.2669	0.0088
Mercury	54646-08-03 04:05 G	21680315.60	21680315.67	21680315.74	0.2664	0.2378
Mercury	54657-01-29 13:55 G	21684147.99	21684148.08	21684148.18	0.2668	0.1270
Mercury	54664-01-23 13:41 G	21686698.00	21686698.07	21686698.14	0.2671	0.2094
Mercury	54666-07-28 20:24 G	21687615.27	21687615.35	21687615.44	0.2661	0.2217
Mercury	54670-02-01 07:41 G	21688898.77	21688898.82	21688898.86	0.2667	0.2431
Mercury	54677-01-25 07:26 G	21691448.71	21691448.81	21691448.92	0.2670	0.0883
Mercury	54679-08-01 03:22 G	21692366.49	21692366.64	21692366.80	0.2663	0.0279
Venus	54688-09-23 03:07 G	21695707.47	21695707.63	21695707.79	0.2688	0.0265
Mercury	54690-01-28 01:12 G	21696199.44	21696199.55	21696199.66	0.2669	0.0313
Mercury	54703-01-31 18:43 G	21700950.19	21700950.28	21700950.37	0.2668	0.1490
Mercury	54710-01-24 18:29 G	21703500.19	21703500.27	21703500.35	0.2671	0.1859
Mercury	54712-07-30 03:07 G	21704417.51	21704417.63	21704417.75	0.2661	0.1768

Mercury	54716-02-03 12:29 G	21705701.01	21705701.02	21705701.03	0.2667	0.2648
Mercury	54723-01-27 12:14 G	21708250.91	21708251.01	21708251.12	0.2670	0.0656
Mercury	54725-08-02 10:05 G	21709168.77	21709168.92	21709169.07	0.2663	0.0728
Mercury	54736-01-30 06:00 G	21713001.64	21713001.75	21713001.86	0.2669	0.0538
Mercury	54749-01-31 23:31 G	21717752.40	21717752.48	21717752.57	0.2668	0.1713
Mercury	54756-01-25 23:17 G	21720302.39	21720302.47	21720302.56	0.2671	0.1632
Mercury	54758-07-31 09:36 G	21721219.77	21721219.90	21721220.04	0.2662	0.1333
Mercury	54769-01-27 17:02 G	21725053.11	21725053.21	21725053.32	0.2670	0.0434
Mercury	54771-08-03 16:48 G	21725971.06	21725971.20	21725971.34	0.2663	0.1186
Mercury	54782-01-30 10:48 G	21729803.85	21729803.95	21729804.06	0.2669	0.0764
Mercury	54789-01-23 10:19 G	21732353.91	21732353.93	21732353.95	0.2672	0.2620
Mercury	54795-02-02 04:19 G	21734554.61	21734554.68	21734554.76	0.2668	0.1936
Mercury	54802-01-26 04:05 G	21737104.58	21737104.67	21737104.77	0.2671	0.1402
Mercury	54804-07-31 16:19 G	21738022.03	21738022.18	21738022.33	0.2662	0.0883
Mercury	54815-01-28 21:50 G	21741855.30	21741855.41	21741855.52	0.2670	0.0218
Mercury	54817-08-03 23:17 G	21742773.35	21742773.47	21742773.60	0.2663	0.1639
Venus	54818-03-25 21:36 G	21743007.30	21743007.40	21743007.51	0.2644	0.1901
Venus	54826-03-23 13:55 G	21745926.95	21745927.08	21745927.22	0.2645	0.1373
Mercury	54828-01-31 15:36 G	21746606.05	21746606.15	21746606.25	0.2669	0.0990
Mercury	54835-01-24 15:07 G	21749156.08	21749156.13	21749156.18	0.2672	0.2386
Mercury	54841-02-02 09:22 G	21751356.82	21751356.89	21751356.95	0.2667	0.2157
Mercury	54848-01-27 09:07 G	21753906.78	21753906.88	21753906.97	0.2671	0.1176
Mercury	54850-08-01 22:48 G	21754824.30	21754824.45	21754824.61	0.2662	0.0441
Mercury	54861-01-29 02:38 G	21758657.50	21758657.61	21758657.72	0.2670	0.0113
Mercury	54863-08-05 06:00 G	21759575.66	21759575.75	21759575.85	0.2663	0.2102
Mercury	54874-01-31 20:24 G	21763408.25	21763408.35	21763408.45	0.2668	0.1210
Mercury	54881-01-24 19:55 G	21765958.27	21765958.33	21765958.40	0.2672	0.2154
Mercury	54883-07-30 22:48 G	21766875.39	21766875.45	21766875.51	0.2661	0.2441
Mercury	54887-02-03 13:55 G	21768159.04	21768159.08	21768159.13	0.2667	0.2375
Mercury	54894-01-27 13:55 G	21770708.97	21770709.08	21770709.18	0.2671	0.0945

Mercury	54896-08-02 05:31 G	21771626.57	21771626.73	21771626.89	0.2662	0.0034
Mercury	54907-01-31 07:41 G	21775459.71	21775459.82	21775459.93	0.2669	0.0275
Mercury	54909-08-06 12:43 G	21776377.99	21776378.03	21776378.07	0.2664	0.2556
Mercury	54920-02-03 01:12 G	21780210.46	21780210.55	21780210.64	0.2668	0.1433
Mercury	54927-01-27 00:43 G	21782760.46	21782760.53	21782760.61	0.2672	0.1926
Mercury	54929-08-01 05:17 G	21783677.62	21783677.72	21783677.82	0.2661	0.2007
Venus	54931-09-26 03:07 G	21784463.47	21784463.63	21784463.79	0.2687	0.0366
Mercury	54933-02-04 18:43 G	21784961.26	21784961.28	21784961.31	0.2667	0.2592
Mercury	54940-01-29 18:43 G	21787511.17	21787511.28	21787511.38	0.2670	0.0712
Mercury	54942-08-04 12:14 G	21788428.85	21788429.01	21788429.16	0.2662	0.0469
Mercury	54953-01-31 12:29 G	21792261.91	21792262.02	21792262.13	0.2669	0.0485
Mercury	54966-02-03 06:00 G	21797012.67	21797012.75	21797012.84	0.2668	0.1655
Mercury	54973-01-27 05:46 G	21799562.65	21799562.74	21799562.82	0.2672	0.1689
Mercury	54975-08-02 12:00 G	21800479.87	21800480.00	21800480.12	0.2661	0.1563
Mercury	54986-01-29 23:31 G	21804313.37	21804313.48	21804313.59	0.2670	0.0486
Mercury	54988-08-04 18:43 G	21805231.14	21805231.28	21805231.43	0.2663	0.0925
Mercury	54999-02-01 17:17 G	21809064.11	21809064.22	21809064.32	0.2669	0.0706

56TH MILLENNIUM CE

This is a list of transits visible from Earth in the 56th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	55012-02-05 10:48 G		21813814.88	21813814.95	21813815.03	0.2668	0.1877	
Mercury	55019-01-29 10:34 G		21816364.85	21816364.94	21816365.03	0.2671	0.1460	

Mercury	55021-08-03 18:29 G	21817282.13	21817282.27	21817282.41	0.2661	0.1125
Mercury	55032-02-01 04:19 G	21821115.57	21821115.68	21821115.79	0.2670	0.0254
Mercury	55034-08-07 01:26 G	21822033.43	21822033.56	21822033.70	0.2663	0.1378
Mercury	55045-02-02 22:05 G	21825866.32	21825866.42	21825866.52	0.2669	0.0930
Mercury	55052-01-27 21:22 G	21828416.35	21828416.39	21828416.44	0.2672	0.2448
Mercury	55058-02-05 15:36 G	21830617.09	21830617.15	21830617.22	0.2668	0.2094
Venus	55061-03-28 00:00 G	21831763.40	21831763.50	21831763.60	0.2644	0.2028
Mercury	55065-01-29 15:22 G	21833167.04	21833167.14	21833167.24	0.2671	0.1226
Mercury	55067-08-05 01:12 G	21834084.40	21834084.55	21834084.70	0.2661	0.0679
Venus	55069-03-25 16:34 G	21834683.05	21834683.19	21834683.33	0.2645	0.1217
Mercury	55078-02-01 09:07 G	21837917.77	21837917.88	21837917.99	0.2670	0.0059
Mercury	55080-08-07 08:10 G	21838835.72	21838835.84	21838835.95	0.2663	0.1827
Mercury	55091-02-04 02:53 G	21842668.52	21842668.62	21842668.72	0.2669	0.1153
Mercury	55098-01-28 02:24 G	21845218.54	21845218.60	21845218.66	0.2672	0.2218
Mercury	55104-02-07 20:24 G	21847419.30	21847419.35	21847419.40	0.2668	0.2316
Mercury	55111-01-31 20:10 G	21849969.24	21849969.34	21849969.44	0.2671	0.1000
Mercury	55113-08-06 07:41 G	21850886.66	21850886.82	21850886.98	0.2662	0.0242
Mercury	55124-02-03 13:55 G	21854719.97	21854720.08	21854720.19	0.2670	0.0222
Mercury	55126-08-09 14:53 G	21855638.04	21855638.12	21855638.20	0.2663	0.2287
Mercury	55137-02-05 07:41 G	21859470.73	21859470.82	21859470.91	0.2669	0.1376
Mercury	55144-01-30 07:12 G	21862020.72	21862020.80	21862020.87	0.2672	0.1981
Mercury	55146-08-04 07:41 G	21862937.74	21862937.82	21862937.90	0.2660	0.2238
Mercury	55150-02-08 01:12 G	21864221.52	21864221.55	21864221.58	0.2668	0.2535
Mercury	55157-02-01 00:58 G	21866771.44	21866771.54	21866771.65	0.2671	0.0773
Mercury	55159-08-07 14:24 G	21867688.94	21867689.10	21867689.25	0.2662	0.0221
Mercury	55170-02-03 18:43 G	21871522.18	21871522.28	21871522.39	0.2670	0.0430
Venus	55174-09-28 03:07 G	21873219.48	21873219.63	21873219.79	0.2687	0.0473
Mercury	55183-02-06 12:29 G	21876272.93	21876273.02	21876273.11	0.2669	0.1599
Mercury	55190-01-30 12:00 G	21878822.92	21878823.00	21878823.08	0.2672	0.1751
Mercury	55192-08-04 14:10 G	21879739.98	21879740.09	21879740.21	0.2661	0.1801

Mercury	55203-02-02 06:00 G	21883573.64	21883573.75	21883573.85	0.2671	0.0553
Mercury	55205-08-07 20:53 G	21884491.22	21884491.37	21884491.53	0.2662	0.0662
Mercury	55216-02-04 23:31 G	21888324.38	21888324.48	21888324.59	0.2670	0.0654
Mercury	55229-02-06 17:17 G	21893075.14	21893075.22	21893075.30	0.2668	0.1815
Mercury	55236-01-31 16:48 G	21895625.11	21895625.20	21895625.29	0.2672	0.1519
Mercury	55238-08-05 20:53 G	21896542.24	21896542.37	21896542.50	0.2661	0.1358
Mercury	55249-02-02 10:48 G	21900375.84	21900375.95	21900376.06	0.2671	0.0328
Mercury	55251-08-09 03:36 G	21901293.51	21901293.65	21901293.79	0.2662	0.1109
Mercury	55262-02-05 04:19 G	21905126.58	21905126.68	21905126.79	0.2669	0.0874
Mercury	55269-01-29 03:50 G	21907676.62	21907676.66	21907676.69	0.2673	0.2509
Mercury	55275-02-07 22:05 G	21909877.35	21909877.42	21909877.49	0.2668	0.2037
Mercury	55282-01-31 21:36 G	21912427.31	21912427.40	21912427.50	0.2672	0.1294
Mercury	55284-08-06 03:22 G	21913344.49	21913344.64	21913344.78	0.2661	0.0927
Mercury	55295-02-03 15:36 G	21917178.04	21917178.15	21917178.26	0.2671	0.0105
Mercury	55297-08-09 10:19 G	21918095.80	21918095.93	21918096.05	0.2662	0.1563
Venus	55304-03-30 02:24 G	21920519.52	21920519.60	21920519.69	0.2645	0.2165
Mercury	55308-02-07 09:07 G	21921928.78	21921928.88	21921928.98	0.2669	0.1098
Venus	55312-03-27 18:43 G	21923439.14	21923439.28	21923439.42	0.2646	0.1101
Mercury	55315-01-31 08:38 G	21924478.80	21924478.86	21924478.92	0.2673	0.2274
Mercury	55321-02-09 02:53 G	21926679.56	21926679.62	21926679.68	0.2668	0.2255
Mercury	55328-02-03 02:38 G	21929229.51	21929229.61	21929229.71	0.2672	0.1059
Mercury	55330-08-08 09:50 G	21930146.76	21930146.91	21930147.07	0.2661	0.0488
Mercury	55341-02-04 20:24 G	21933980.24	21933980.35	21933980.46	0.2670	0.0149
Mercury	55343-08-11 16:48 G	21934898.10	21934898.20	21934898.30	0.2663	0.2011
Mercury	55354-02-07 14:10 G	21938730.99	21938731.09	21938731.18	0.2669	0.1321
Mercury	55361-01-31 13:26 G	21941280.99	21941281.06	21941281.13	0.2673	0.2041
Mercury	55363-08-06 10:05 G	21942197.86	21942197.92	21942197.97	0.2660	0.2467
Mercury	55367-02-10 07:41 G	21943481.78	21943481.82	21943481.86	0.2668	0.2475
Mercury	55374-02-03 07:26 G	21946031.70	21946031.81	21946031.91	0.2671	0.0831
Mercury	55376-08-08 16:34 G	21946949.03	21946949.19	21946949.35	0.2661	0.0040

Mercury	55387-02-06 01:12 G	21950782.44	21950782.55	21950782.66	0.2670	0.0367
Mercury	55389-08-11 23:31 G	21951700.43	21951700.48	21951700.54	0.2663	0.2467
Mercury	55400-02-08 18:58 G	21955533.20	21955533.29	21955533.37	0.2669	0.1540
Mercury	55407-02-02 18:14 G	21958083.18	21958083.26	21958083.35	0.2672	0.1813
Mercury	55409-08-07 16:34 G	21959000.09	21959000.19	21959000.29	0.2660	0.2034
Venus	55417-09-30 03:22 G	21961975.48	21961975.64	21961975.79	0.2686	0.0577
Mercury	55420-02-05 12:14 G	21962833.90	21962834.01	21962834.12	0.2671	0.0600
Mercury	55422-08-10 23:02 G	21963751.31	21963751.46	21963751.62	0.2661	0.0405
Mercury	55433-02-07 06:00 G	21967584.64	21967584.75	21967584.86	0.2670	0.0587
Mercury	55446-02-09 23:46 G	21972335.41	21972335.49	21972335.57	0.2669	0.1761
Mercury	55453-02-02 23:17 G	21974885.38	21974885.47	21974885.55	0.2672	0.1582
Mercury	55455-08-08 23:02 G	21975802.34	21975802.46	21975802.58	0.2660	0.1605
Mercury	55466-02-05 17:02 G	21979636.10	21979636.21	21979636.32	0.2671	0.0374
Mercury	55468-08-11 05:46 G	21980553.59	21980553.74	21980553.89	0.2662	0.0842
Mercury	55479-02-08 10:48 G	21984386.85	21984386.95	21984387.06	0.2670	0.0813
Mercury	55486-02-01 10:05 G	21986936.89	21986936.92	21986936.95	0.2673	0.2571
Mercury	55492-02-11 04:34 G	21989137.62	21989137.69	21989137.76	0.2669	0.1978
Mercury	55499-02-04 04:05 G	21991687.57	21991687.67	21991687.76	0.2672	0.1349
Mercury	55501-08-10 05:46 G	21992604.60	21992604.74	21992604.88	0.2660	0.1166
Mercury	55512-02-07 21:50 G	21996438.30	21996438.41	21996438.52	0.2671	0.0149
Mercury	55514-08-13 12:14 G	21997355.88	21997356.01	21997356.15	0.2662	0.1290
Mercury	55525-02-09 15:36 G	22001189.05	22001189.15	22001189.25	0.2670	0.1034
Mercury	55532-02-03 14:53 G	22003739.07	22003739.12	22003739.17	0.2673	0.2337
Mercury	55538-02-12 09:22 G	22005939.83	22005939.89	22005939.95	0.2669	0.2199
Mercury	55545-02-05 08:53 G	22008489.77	22008489.87	22008489.97	0.2672	0.1122
Venus	55547-04-02 04:48 G	22009275.62	22009275.70	22009275.77	0.2645	0.2288
Mercury	55547-08-11 12:14 G	22009406.86	22009407.01	22009407.16	0.2661	0.0724
Venus	55555-03-30 20:53 G	22012195.23	22012195.37	22012195.52	0.2646	0.0979
Mercury	55558-02-08 02:38 G	22013240.50	22013240.61	22013240.72	0.2671	0.0096
Mercury	55560-08-13 18:58 G	22014158.18	22014158.29	22014158.41	0.2662	0.1743

Mercury	55571-02-10 20:24 G	22017991.26	22017991.35	22017991.45	0.2669	0.1258
Mercury	55578-02-03 19:41 G	22020541.26	22020541.32	22020541.39	0.2673	0.2106
Mercury	55584-02-13 14:10 G	22022742.04	22022742.09	22022742.13	0.2668	0.2414
Mercury	55591-02-06 13:41 G	22025291.97	22025292.07	22025292.17	0.2672	0.0890
Mercury	55593-08-11 18:43 G	22026209.13	22026209.28	22026209.44	0.2661	0.0298
Mercury	55604-02-09 07:26 G	22030042.70	22030042.81	22030042.92	0.2671	0.0312
Mercury	55606-08-15 01:41 G	22030960.48	22030960.57	22030960.65	0.2662	0.2190
Mercury	55617-02-11 01:12 G	22034793.46	22034793.55	22034793.64	0.2669	0.1478
Mercury	55624-02-05 00:43 G	22037343.45	22037343.53	22037343.60	0.2673	0.1873
Mercury	55626-08-09 18:58 G	22038260.21	22038260.29	22038260.37	0.2659	0.2261
Mercury	55630-02-13 18:58 G	22039544.27	22039544.29	22039544.30	0.2668	0.2635
Mercury	55637-02-06 18:29 G	22042094.17	22042094.27	22042094.38	0.2672	0.0665
Mercury	55639-08-13 01:26 G	22043011.40	22043011.56	22043011.71	0.2661	0.0160
Mercury	55650-02-09 12:29 G	22046844.91	22046845.02	22046845.12	0.2670	0.0539
Mercury	55652-08-15 08:10 G	22047762.83	22047762.84	22047762.86	0.2662	0.2643
Venus	55660-10-01 03:22 G	22050731.48	22050731.64	22050731.79	0.2686	0.0675
Mercury	55663-02-12 06:00 G	22051595.67	22051595.75	22051595.84	0.2669	0.1699
Mercury	55670-02-05 05:31 G	22054145.64	22054145.73	22054145.82	0.2673	0.1640
Mercury	55672-08-10 01:26 G	22055062.45	22055062.56	22055062.67	0.2660	0.1829
Mercury	55683-02-07 23:17 G	22058896.37	22058896.47	22058896.58	0.2671	0.0445
Mercury	55685-08-13 07:55 G	22059813.68	22059813.83	22059813.98	0.2661	0.0587
Mercury	55696-02-10 17:17 G	22063647.11	22063647.22	22063647.32	0.2670	0.0754
Mercury	55703-02-04 16:19 G	22066197.17	22066197.18	22066197.20	0.2674	0.2633
Mercury	55709-02-13 10:48 G	22068397.88	22068397.95	22068398.03	0.2669	0.1922
Mercury	55716-02-07 10:19 G	22070947.84	22070947.93	22070948.02	0.2673	0.1412
Mercury	55718-08-12 07:55 G	22071864.70	22071864.83	22071864.96	0.2660	0.1403
Mercury	55729-02-09 04:19 G	22075698.57	22075698.68	22075698.79	0.2671	0.0219
Mercury	55731-08-15 14:38 G	22076615.96	22076616.11	22076616.25	0.2661	0.1033
Mercury	55742-02-11 22:05 G	22080449.32	22080449.42	22080449.52	0.2670	0.0978
Mercury	55749-02-04 21:07 G	22082999.34	22082999.38	22082999.43	0.2674	0.2399

Mercury	55755-02-14 15:36 G	22085200.09	22085200.15	22085200.22	0.2669	0.2138
Mercury	55762-02-07 15:07 G	22087750.03	22087750.13	22087750.23	0.2672	0.1183
Mercury	55764-08-12 14:24 G	22088666.96	22088667.10	22088667.25	0.2660	0.0975
Mercury	55775-02-10 09:07 G	22092500.77	22092500.88	22092500.99	0.2671	0.0056
Mercury	55777-08-15 21:07 G	22093418.25	22093418.38	22093418.51	0.2662	0.1468
Mercury	55788-02-13 02:53 G	22097251.52	22097251.62	22097251.72	0.2670	0.1195
Venus	55790-04-03 07:12 G	22098031.74	22098031.80	22098031.86	0.2646	0.2424
Mercury	55795-02-06 01:55 G	22099801.52	22099801.58	22099801.65	0.2673	0.2172
Venus	55798-03-31 23:17 G	22100951.32	22100951.47	22100951.62	0.2647	0.0843
Mercury	55801-02-15 20:24 G	22102002.31	22102002.35	22102002.40	0.2669	0.2360
Mercury	55808-02-09 19:55 G	22104552.23	22104552.33	22104552.44	0.2672	0.0959
Mercury	55810-08-14 20:53 G	22105469.22	22105469.37	22105469.53	0.2660	0.0547
Mercury	55821-02-11 13:55 G	22109302.97	22109303.08	22109303.19	0.2671	0.0243
Mercury	55823-08-18 03:36 G	22110220.55	22110220.65	22110220.76	0.2662	0.1918
Mercury	55834-02-14 07:41 G	22114053.73	22114053.82	22114053.91	0.2670	0.1419
Mercury	55841-02-07 06:58 G	22116603.71	22116603.79	22116603.86	0.2673	0.1937
Mercury	55843-08-12 21:22 G	22117520.34	22117520.39	22117520.45	0.2659	0.2475
Mercury	55847-02-17 01:12 G	22118804.53	22118804.55	22118804.58	0.2669	0.2575
Mercury	55854-02-10 00:58 G	22121354.43	22121354.54	22121354.64	0.2672	0.0729
Mercury	55856-08-15 03:36 G	22122271.50	22122271.65	22122271.81	0.2660	0.0102
Mercury	55867-02-12 18:43 G	22126105.17	22126105.28	22126105.39	0.2671	0.0465
Mercury	55869-08-18 10:19 G	22127022.86	22127022.93	22127023.00	0.2662	0.2363
Mercury	55880-02-15 12:29 G	22130855.93	22130856.02	22130856.10	0.2670	0.1639
Mercury	55887-02-08 11:46 G	22133405.91	22133405.99	22133406.07	0.2673	0.1704
Mercury	55889-08-13 03:50 G	22134322.56	22134322.66	22134322.76	0.2659	0.2058
Mercury	55900-02-11 05:46 G	22138156.63	22138156.74	22138156.85	0.2672	0.0499
Mercury	55902-08-17 10:19 G	22139073.77	22139073.93	22139074.08	0.2661	0.0349
Venus	55903-10-05 03:36 G	22139487.49	22139487.65	22139487.80	0.2685	0.0757
Mercury	55913-02-13 23:31 G	22142907.37	22142907.48	22142907.59	0.2671	0.0690
Mercury	55926-02-16 17:17 G	22147658.14	22147658.22	22147658.30	0.2669	0.1858

Mercury	55933-02-09 16:34 G	22150208.10	22150208.19	22150208.29	0.2673	0.1475
Mercury	55935-08-15 10:19 G	22151124.81	22151124.93	22151125.05	0.2659	0.1629
Mercury	55946-02-12 10:34 G	22154958.83	22154958.94	22154959.05	0.2672	0.0269
Mercury	55948-08-17 16:48 G	22155876.05	22155876.20	22155876.35	0.2661	0.0774
Mercury	55959-02-15 04:19 G	22159709.58	22159709.68	22159709.78	0.2671	0.0912
Mercury	55966-02-08 03:22 G	22162259.60	22162259.64	22162259.68	0.2674	0.2466
Mercury	55972-02-17 22:05 G	22164460.35	22164460.42	22164460.49	0.2669	0.2077
Mercury	55979-02-10 21:36 G	22167010.30	22167010.40	22167010.49	0.2673	0.1243
Mercury	55981-08-15 16:48 G	22167927.06	22167927.20	22167927.34	0.2660	0.1207
Mercury	55992-02-13 15:22 G	22171761.03	22171761.14	22171761.25	0.2672	0.0067
Mercury	55994-08-18 23:17 G	22172678.33	22172678.47	22172678.61	0.2661	0.1218

57TH MILLENNIUM CE

This is a list of transits visible from Earth in the 57th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	56005-02-15 09:07 G		22176511.78	22176511.88	22176511.98	0.2670	0.1139	
Mercury	56012-02-09 08:24 G		22179061.79	22179061.85	22179061.91	0.2674	0.2231	
Mercury	56018-02-18 02:53 G		22181262.57	22181262.62	22181262.68	0.2669	0.2296	
Mercury	56025-02-11 02:24 G		22183812.50	22183812.60	22183812.70	0.2673	0.1015	
Mercury	56027-08-16 23:17 G		22184729.33	22184729.47	22184729.62	0.2660	0.0779	
Venus	56033-04-05 09:07 G		22186787.84	22186787.88	22186787.93	0.2646	0.2531	
Mercury	56038-02-13 20:10 G		22188563.23	22188563.34	22188563.45	0.2671	0.0193	
Mercury	56040-08-19 06:00 G		22189480.63	22189480.75	22189480.87	0.2661	0.1654	

Venus	56041-04-03 01:26 G	22189707.41	22189707.56	22189707.71	0.2647	0.0732
Mercury	56051-02-16 13:55 G	22193313.99	22193314.08	22193314.18	0.2670	0.1365
Mercury	56058-02-09 13:12 G	22195863.98	22195864.05	22195864.12	0.2674	0.1999
Mercury	56064-02-19 07:41 G	22198064.79	22198064.82	22198064.86	0.2669	0.2518
Mercury	56071-02-12 07:12 G	22200614.69	22200614.80	22200614.91	0.2673	0.0787
Mercury	56073-08-17 06:00 G	22201531.59	22201531.75	22201531.90	0.2660	0.0347
Mercury	56084-02-15 00:58 G	22205365.44	22205365.54	22205365.65	0.2671	0.0418
Mercury	56086-08-20 12:29 G	22206282.93	22206283.02	22206283.12	0.2661	0.2101
Mercury	56097-02-16 18:58 G	22210116.20	22210116.29	22210116.37	0.2670	0.1584
Mercury	56104-02-11 18:00 G	22212666.17	22212666.25	22212666.34	0.2674	0.1768
Mercury	56106-08-16 06:14 G	22213582.68	22213582.76	22213582.84	0.2659	0.2275
Mercury	56117-02-13 12:00 G	22217416.89	22217417.00	22217417.11	0.2672	0.0559
Mercury	56119-08-19 12:29 G	22218333.86	22218334.02	22218334.18	0.2660	0.0087
Mercury	56130-02-16 05:46 G	22222167.64	22222167.74	22222167.85	0.2671	0.0640
Mercury	56132-08-21 19:12 G	22223085.25	22223085.30	22223085.34	0.2662	0.2538
Mercury	56143-02-18 23:46 G	22226918.41	22226918.49	22226918.57	0.2670	0.1798
Venus	56146-10-06 03:36 G	22228243.50	22228243.65	22228243.80	0.2684	0.0846
Mercury	56150-02-11 23:02 G	22229468.37	22229468.46	22229468.55	0.2674	0.1541
Mercury	56152-08-16 12:43 G	22230384.92	22230385.03	22230385.14	0.2659	0.1857
Mercury	56163-02-14 16:48 G	22234219.09	22234219.20	22234219.31	0.2672	0.0340
Mercury	56165-08-19 18:58 G	22235136.14	22235136.29	22235136.45	0.2660	0.0531
Mercury	56176-02-17 10:48 G	22238969.84	22238969.95	22238970.05	0.2671	0.0856
Mercury	56183-02-10 09:50 G	22241519.87	22241519.91	22241519.94	0.2675	0.2528
Mercury	56189-02-19 04:34 G	22243720.62	22243720.69	22243720.76	0.2670	0.2019
Mercury	56196-02-13 03:50 G	22246270.56	22246270.66	22246270.75	0.2673	0.1307
Mercury	56198-08-17 19:26 G	22247187.18	22247187.31	22247187.44	0.2659	0.1426
Mercury	56209-02-15 21:36 G	22251021.29	22251021.40	22251021.52	0.2672	0.0149
Mercury	56211-08-22 01:41 G	22251938.42	22251938.57	22251938.71	0.2660	0.0962
Mercury	56222-02-18 15:36 G	22255772.05	22255772.15	22255772.25	0.2671	0.1076
Mercury	56229-02-11 14:38 G	22258322.05	22258322.11	22258322.16	0.2674	0.2293

Mercury	56235-02-21 09:22 G	22260522.83	22260522.89	22260522.95	0.2670	0.2237
Mercury	56242-02-14 08:38 G	22263072.76	22263072.86	22263072.96	0.2673	0.1077
Mercury	56244-08-19 01:55 G	22263989.43	22263989.58	22263989.72	0.2659	0.1007
Mercury	56255-02-17 02:38 G	22267823.50	22267823.61	22267823.72	0.2672	0.0135
Mercury	56257-08-22 08:10 G	22268740.71	22268740.84	22268740.98	0.2661	0.1406
Mercury	56268-02-19 20:24 G	22272574.25	22272574.35	22272574.45	0.2671	0.1297
Mercury	56275-02-12 19:26 G	22275124.24	22275124.31	22275124.38	0.2674	0.2059
Mercury	56281-02-21 14:10 G	22277325.05	22277325.09	22277325.13	0.2670	0.2453
Venus	56284-04-05 03:36 G	22278463.50	22278463.65	22278463.81	0.2648	0.0600
Mercury	56288-02-15 13:26 G	22279874.96	22279875.06	22279875.17	0.2673	0.0849
Mercury	56290-08-20 08:24 G	22280791.70	22280791.85	22280792.00	0.2659	0.0576
Mercury	56301-02-18 07:26 G	22284625.70	22284625.81	22284625.92	0.2672	0.0347
Mercury	56303-08-24 14:38 G	22285543.00	22285543.11	22285543.23	0.2661	0.1834
Mercury	56314-02-21 01:12 G	22289376.46	22289376.55	22289376.64	0.2671	0.1518
Mercury	56321-02-14 00:14 G	22291926.43	22291926.51	22291926.59	0.2674	0.1834
Mercury	56323-08-19 08:53 G	22292842.82	22292842.87	22292842.92	0.2658	0.2496
Mercury	56334-02-16 18:29 G	22296677.16	22296677.27	22296677.37	0.2673	0.0623
Mercury	56336-08-21 14:53 G	22297593.96	22297594.12	22297594.27	0.2660	0.0154
Mercury	56347-02-19 12:14 G	22301427.90	22301428.01	22301428.12	0.2672	0.0574
Mercury	56349-08-24 21:22 G	22302345.31	22302345.39	22302345.47	0.2661	0.2278
Mercury	56360-02-22 06:00 G	22306178.67	22306178.75	22306178.83	0.2670	0.1741
Mercury	56367-02-15 05:17 G	22308728.63	22308728.72	22308728.81	0.2674	0.1599
Mercury	56369-08-19 15:22 G	22309645.04	22309645.14	22309645.23	0.2658	0.2073
Mercury	56380-02-17 23:17 G	22313479.36	22313479.47	22313479.58	0.2673	0.0399
Mercury	56382-08-22 21:22 G	22314396.24	22314396.39	22314396.55	0.2660	0.0276
Venus	56389-10-08 04:05 G	22316999.52	22316999.67	22316999.82	0.2683	0.0891
Mercury	56393-02-19 17:02 G	22318230.11	22318230.21	22318230.32	0.2671	0.0797
Mercury	56400-02-13 16:05 G	22320780.14	22320780.17	22320780.19	0.2675	0.2592
Mercury	56406-02-22 10:48 G	22322980.88	22322980.95	22322981.03	0.2670	0.1962
Mercury	56413-02-15 10:05 G	22325530.82	22325530.92	22325531.01	0.2674	0.1369

Mercury	56415-08-20 21:50 G	22326447.29	22326447.41	22326447.53	0.2659	0.1659
Mercury	56426-02-18 04:05 G	22330281.56	22330281.67	22330281.78	0.2673	0.0166
Mercury	56428-08-23 03:50 G	22331198.51	22331198.66	22331198.81	0.2660	0.0712
Mercury	56439-02-20 21:50 G	22335032.31	22335032.41	22335032.52	0.2671	0.1018
Mercury	56446-02-13 20:53 G	22337582.32	22337582.37	22337582.42	0.2675	0.2357
Mercury	56452-02-23 15:36 G	22339783.09	22339783.15	22339783.21	0.2670	0.2178
Mercury	56459-02-16 14:53 G	22342333.02	22342333.12	22342333.22	0.2674	0.1140
Mercury	56461-08-21 04:19 G	22343249.54	22343249.68	22343249.82	0.2659	0.1228
Mercury	56472-02-19 08:53 G	22347083.76	22347083.87	22347083.98	0.2672	0.0066
Mercury	56474-08-24 10:34 G	22348000.79	22348000.94	22348001.08	0.2660	0.1141
Mercury	56485-02-21 02:38 G	22351834.52	22351834.61	22351834.71	0.2671	0.1239
Mercury	56492-02-15 01:41 G	22354384.51	22354384.57	22354384.64	0.2675	0.2126
Mercury	56498-02-23 20:24 G	22356585.31	22356585.35	22356585.40	0.2670	0.2395
Mercury	56505-02-17 19:55 G	22359135.22	22359135.33	22359135.43	0.2674	0.0915
Mercury	56507-08-23 10:48 G	22360051.80	22360051.95	22360052.09	0.2659	0.0814
Mercury	56518-02-20 13:41 G	22363885.96	22363886.07	22363886.18	0.2672	0.0298
Mercury	56520-08-25 17:02 G	22364803.09	22364803.21	22364803.34	0.2660	0.1584
Venus	56527-04-08 05:46 G	22367219.59	22367219.74	22367219.90	0.2649	0.0473
Mercury	56531-02-23 07:41 G	22368636.72	22368636.82	22368636.91	0.2671	0.1461
Mercury	56538-02-16 06:43 G	22371186.70	22371186.78	22371186.85	0.2675	0.1892
Mercury	56544-02-26 01:12 G	22373387.54	22373387.55	22373387.57	0.2670	0.2614
Mercury	56551-02-19 00:43 G	22375937.42	22375937.53	22375937.64	0.2673	0.0683
Mercury	56553-08-23 17:17 G	22376854.07	22376854.22	22376854.37	0.2659	0.0384
Mercury	56564-02-21 18:29 G	22380688.17	22380688.27	22380688.38	0.2672	0.0516
Mercury	56566-08-26 23:46 G	22381605.38	22381605.49	22381605.59	0.2661	0.2016
Mercury	56577-02-23 12:29 G	22385438.93	22385439.02	22385439.10	0.2671	0.1680
Mercury	56584-02-17 11:31 G	22387988.89	22387988.98	22387989.07	0.2674	0.1661
Mercury	56586-08-21 17:46 G	22388905.17	22388905.24	22388905.32	0.2658	0.2290
Mercury	56597-02-19 05:31 G	22392739.62	22392739.73	22392739.84	0.2673	0.0454
Mercury	56599-08-24 23:46 G	22393656.34	22393656.49	22393656.65	0.2659	0.0049

Mercury	56610-02-22 23:31 G	22397490.37	22397490.48	22397490.58	0.2672	0.0739
Mercury	56612-08-28 06:14 G	22398407.71	22398407.76	22398407.82	0.2661	0.2460
Mercury	56617-02-15 22:19 G	22400040.42	22400040.43	22400040.44	0.2676	0.2656
Mercury	56623-02-25 17:17 G	22402241.14	22402241.22	22402241.29	0.2671	0.1898
Venus	56624-10-12 14:10 G	22402836.07	22402836.09	22402836.11	0.2684	0.2642
Mercury	56630-02-18 16:19 G	22404791.09	22404791.18	22404791.28	0.2674	0.1430
Mercury	56632-08-23 00:14 G	22405707.40	22405707.51	22405707.62	0.2658	0.1871
Venus	56632-10-10 04:19 G	22405755.53	22405755.68	22405755.83	0.2683	0.0981
Mercury	56643-02-21 10:19 G	22409541.82	22409541.93	22409542.04	0.2673	0.0236
Mercury	56645-08-26 06:14 G	22410458.61	22410458.76	22410458.92	0.2659	0.0471
Mercury	56656-02-24 04:19 G	22414292.57	22414292.68	22414292.78	0.2672	0.0957
Mercury	56663-02-17 03:07 G	22416842.58	22416842.63	22416842.67	0.2675	0.2421
Mercury	56669-02-25 22:05 G	22419043.36	22419043.42	22419043.49	0.2671	0.2118
Mercury	56676-02-19 21:22 G	22421593.29	22421593.39	22421593.48	0.2674	0.1207
Mercury	56678-08-24 06:43 G	22422509.65	22422509.78	22422509.91	0.2658	0.1464
Mercury	56689-02-21 15:07 G	22426344.02	22426344.13	22426344.25	0.2673	0.0113
Mercury	56691-08-27 12:58 G	22427260.89	22427261.04	22427261.18	0.2660	0.0900
Mercury	56702-02-25 09:07 G	22431094.78	22431094.88	22431094.98	0.2672	0.1177
Mercury	56709-02-18 07:55 G	22433644.77	22433644.83	22433644.90	0.2675	0.2191
Mercury	56715-02-28 02:53 G	22435845.57	22435845.62	22435845.67	0.2670	0.2337
Mercury	56722-02-21 02:10 G	22438395.48	22438395.59	22438395.69	0.2674	0.0974
Mercury	56724-08-25 13:12 G	22439311.91	22439312.05	22439312.19	0.2658	0.1037
Mercury	56735-02-23 20:10 G	22443146.22	22443146.34	22443146.45	0.2673	0.0246
Mercury	56737-08-28 19:26 G	22444063.17	22444063.31	22444063.44	0.2660	0.1324
Mercury	56748-02-26 13:55 G	22447896.99	22447897.08	22447897.18	0.2671	0.1400
Mercury	56755-02-19 12:58 G	22450446.96	22450447.04	22450447.11	0.2675	0.1959
Mercury	56761-02-28 07:41 G	22452647.80	22452647.82	22452647.85	0.2670	0.2556
Mercury	56768-02-22 06:58 G	22455197.68	22455197.79	22455197.90	0.2674	0.0747
Venus	56770-04-10 07:55 G	22455975.67	22455975.83	22455975.99	0.2649	0.0355
Mercury	56770-08-26 19:41 G	22456114.17	22456114.32	22456114.47	0.2659	0.0617

Mercury	56781-02-24 00:58 G	22459948.43	22459948.54	22459948.65	0.2673	0.0451
Mercury	56783-08-30 01:55 G	22460865.47	22460865.58	22460865.70	0.2660	0.1763
Mercury	56794-02-26 18:43 G	22464699.20	22464699.28	22464699.37	0.2671	0.1619
Mercury	56801-02-19 17:46 G	22467249.16	22467249.24	22467249.33	0.2675	0.1724
Mercury	56803-08-24 20:24 G	22468165.30	22468165.35	22468165.40	0.2657	0.2493
Mercury	56814-02-22 11:46 G	22471999.88	22471999.99	22472000.10	0.2674	0.0519
Mercury	56816-08-27 02:24 G	22472916.44	22472916.60	22472916.75	0.2659	0.0201
Mercury	56827-02-25 05:46 G	22476750.63	22476750.74	22476750.85	0.2672	0.0669
Mercury	56829-08-30 08:38 G	22477667.77	22477667.86	22477667.94	0.2660	0.2194
Mercury	56840-02-27 23:31 G	22481501.41	22481501.48	22481501.56	0.2671	0.1842
Mercury	56847-02-20 22:34 G	22484051.35	22484051.44	22484051.53	0.2675	0.1497
Mercury	56849-08-25 02:53 G	22484967.52	22484967.62	22484967.71	0.2657	0.2086
Mercury	56860-02-23 16:34 G	22488802.08	22488802.19	22488802.31	0.2674	0.0309
Mercury	56862-08-28 08:38 G	22489718.71	22489718.86	22489719.02	0.2659	0.0244
Venus	56867-10-14 14:24 G	22491592.06	22491592.10	22491592.15	0.2683	0.2576
Mercury	56873-02-25 10:34 G	22493552.84	22493552.94	22493553.05	0.2672	0.0897
Mercury	56875-08-31 15:07 G	22494470.12	22494470.13	22494470.15	0.2660	0.2637
Venus	56875-10-12 05:02 G	22494511.56	22494511.71	22494511.85	0.2682	0.1003
Mercury	56880-02-19 09:22 G	22496102.85	22496102.89	22496102.93	0.2676	0.2487
Mercury	56886-02-28 04:34 G	22498303.62	22498303.69	22498303.75	0.2671	0.2058
Mercury	56893-02-21 03:36 G	22500853.55	22500853.65	22500853.74	0.2675	0.1266
Mercury	56895-08-26 09:22 G	22501769.77	22501769.89	22501770.01	0.2658	0.1669
Mercury	56906-02-24 21:36 G	22505604.29	22505604.40	22505604.51	0.2673	0.0098
Mercury	56908-08-29 15:22 G	22506520.99	22506521.14	22506521.29	0.2659	0.0659
Mercury	56919-02-27 15:22 G	22510355.04	22510355.14	22510355.25	0.2672	0.1122
Mercury	56926-02-20 14:10 G	22512905.04	22512905.09	22512905.15	0.2676	0.2255
Mercury	56932-03-01 09:22 G	22515105.83	22515105.89	22515105.94	0.2671	0.2277
Mercury	56939-02-23 08:24 G	22517655.75	22517655.85	22517655.95	0.2674	0.1038
Mercury	56941-08-27 15:50 G	22518572.02	22518572.16	22518572.29	0.2658	0.1257
Mercury	56952-02-26 02:24 G	22522406.49	22522406.60	22522406.71	0.2673	0.0164

Mercury	56954-08-30 21:50 G	22523323.27	22523323.41	22523323.55	0.2659	0.1084
Mercury	56965-02-27 20:24 G	22527157.25	22527157.35	22527157.44	0.2672	0.1341
Mercury	56972-02-21 19:12 G	22529707.23	22529707.30	22529707.37	0.2675	0.2023
Mercury	56978-03-02 14:10 G	22531908.05	22531908.09	22531908.12	0.2671	0.2491
Mercury	56985-02-23 13:12 G	22534457.95	22534458.05	22534458.16	0.2674	0.0807
Mercury	56987-08-28 22:19 G	22535374.28	22535374.43	22535374.57	0.2658	0.0842
Mercury	56998-02-26 07:12 G	22539208.69	22539208.80	22539208.91	0.2673	0.0391
Mercury	57000-09-01 04:19 G	22540125.55	22540125.68	22540125.81	0.2659	0.1506

58TH MILLENNIUM CE

This is a list of transits visible from Earth in the 58th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	57011-03-02 01:12 G		22543959.46	22543959.55	22543959.64	0.2672	0.1558	
Venus	57013-04-12 10:05 G		22544731.76	22544731.92	22544732.08	0.2650	0.0225	
Mercury	57018-02-23 00:00 G		22546509.42	22546509.50	22546509.58	0.2675	0.1791	
Mercury	57031-02-25 18:00 G		22551260.15	22551260.25	22551260.36	0.2674	0.0591	
Mercury	57033-08-30 04:34 G		22552176.54	22552176.69	22552176.85	0.2658	0.0436	
Mercury	57044-02-28 12:00 G		22556010.90	22556011.00	22556011.11	0.2673	0.0621	
Mercury	57046-09-02 10:48 G		22556927.85	22556927.95	22556928.06	0.2660	0.1937	
Mercury	57057-03-02 06:00 G		22560761.67	22560761.75	22560761.83	0.2672	0.1776	
Mercury	57064-02-24 04:48 G		22563311.61	22563311.70	22563311.79	0.2675	0.1562	
Mercury	57066-08-28 05:31 G		22564227.66	22564227.73	22564227.81	0.2657	0.2290	
Mercury	57077-02-25 23:02 G		22568062.35	22568062.46	22568062.57	0.2674	0.0358	

Mercury	57079-08-31 11:17 G	22568978.81	22568978.97	22568979.12	0.2658	0.0075
Mercury	57090-02-28 17:02 G	22572813.10	22572813.21	22572813.31	0.2673	0.0835
Mercury	57092-09-02 17:17 G	22573730.15	22573730.22	22573730.29	0.2660	0.2361
Mercury	57097-02-21 15:36 G	22575363.12	22575363.15	22575363.18	0.2676	0.2554
Mercury	57103-03-04 10:48 G	22577563.88	22577563.95	22577564.02	0.2671	0.1996
Mercury	57110-02-25 09:50 G	22580113.81	22580113.91	22580114.00	0.2675	0.1335
Venus	57110-10-17 14:53 G	22580348.07	22580348.12	22580348.18	0.2682	0.2510
Mercury	57112-08-29 12:00 G	22581029.89	22581030.00	22581030.10	0.2657	0.1883
Venus	57118-10-15 05:17 G	22583267.57	22583267.72	22583267.86	0.2681	0.1081
Mercury	57123-02-28 03:50 G	22584864.55	22584864.66	22584864.77	0.2674	0.0130
Mercury	57125-09-01 17:46 G	22585781.09	22585781.24	22585781.39	0.2659	0.0419
Mercury	57136-03-01 21:50 G	22589615.31	22589615.41	22589615.51	0.2673	0.1056
Mercury	57143-02-23 20:24 G	22592165.30	22592165.35	22592165.41	0.2676	0.2319
Mercury	57149-03-04 15:36 G	22594366.09	22594366.15	22594366.21	0.2671	0.2210
Mercury	57156-02-26 14:38 G	22596916.01	22596916.11	22596916.21	0.2675	0.1099
Mercury	57158-08-30 18:29 G	22597832.14	22597832.27	22597832.39	0.2657	0.1475
Mercury	57169-02-28 08:38 G	22601666.75	22601666.86	22601666.97	0.2674	0.0108
Mercury	57171-09-03 00:14 G	22602583.36	22602583.51	22602583.65	0.2659	0.0840
Mercury	57182-03-03 02:38 G	22606417.51	22606417.61	22606417.71	0.2672	0.1271
Mercury	57189-02-24 01:26 G	22608967.49	22608967.56	22608967.62	0.2676	0.2088
Mercury	57195-03-05 20:24 G	22611168.31	22611168.35	22611168.40	0.2671	0.2430
Mercury	57202-02-26 19:26 G	22613718.21	22613718.31	22613718.42	0.2675	0.0876
Mercury	57204-08-31 00:43 G	22614634.39	22614634.53	22614634.67	0.2657	0.1067
Mercury	57215-03-01 13:26 G	22618468.95	22618469.06	22618469.18	0.2674	0.0342
Mercury	57217-09-03 06:43 G	22619385.64	22619385.78	22619385.91	0.2659	0.1261
Mercury	57228-03-03 07:26 G	22623219.72	22623219.81	22623219.90	0.2672	0.1494
Mercury	57235-02-25 06:14 G	22625769.68	22625769.76	22625769.84	0.2676	0.1856
Mercury	57241-03-06 01:12 G	22627970.54	22627970.55	22627970.56	0.2671	0.2644
Mercury	57248-02-28 00:29 G	22630520.41	22630520.52	22630520.63	0.2674	0.0646
Mercury	57250-09-01 07:12 G	22631436.65	22631436.80	22631436.95	0.2658	0.0651

Venus	57256-04-13 12:00 G	22633487.84	22633488.00	22633488.16	0.2651	0.0132
Mercury	57261-03-01 18:29 G	22635271.16	22635271.27	22635271.37	0.2673	0.0552
Mercury	57263-09-04 13:12 G	22636187.93	22636188.05	22636188.17	0.2659	0.1684
Mercury	57274-03-04 12:14 G	22640021.93	22640022.01	22640022.10	0.2672	0.1716
Mercury	57281-02-25 11:02 G	22642571.88	22642571.96	22642572.05	0.2676	0.1627
Mercury	57283-08-30 07:55 G	22643487.79	22643487.83	22643487.88	0.2656	0.2506
Mercury	57294-02-28 05:17 G	22647322.61	22647322.72	22647322.83	0.2674	0.0420
Mercury	57296-09-01 13:41 G	22648238.92	22648239.07	22648239.22	0.2658	0.0237
Mercury	57307-03-03 23:17 G	22652073.36	22652073.47	22652073.57	0.2673	0.0771
Mercury	57309-09-05 19:41 G	22652990.23	22652990.32	22652990.42	0.2659	0.2115
Mercury	57314-02-24 21:50 G	22654623.39	22654623.41	22654623.43	0.2677	0.2619
Mercury	57320-03-05 17:02 G	22656824.14	22656824.21	22656824.29	0.2672	0.1936
Mercury	57327-02-27 16:05 G	22659374.07	22659374.17	22659374.26	0.2675	0.1396
Mercury	57329-08-31 14:24 G	22660290.01	22660290.10	22660290.20	0.2657	0.2099
Mercury	57340-03-01 10:05 G	22664124.81	22664124.92	22664125.03	0.2674	0.0192
Mercury	57342-09-03 20:10 G	22665041.18	22665041.34	22665041.49	0.2658	0.0178
Mercury	57353-03-04 04:05 G	22668875.57	22668875.67	22668875.77	0.2673	0.0987
Venus	57353-10-18 15:22 G	22669104.08	22669104.14	22669104.20	0.2682	0.2455
Mercury	57355-09-07 02:10 G	22669792.55	22669792.59	22669792.64	0.2660	0.2538
Mercury	57360-02-26 02:38 G	22671425.56	22671425.61	22671425.66	0.2677	0.2389
Venus	57361-10-16 05:46 G	22672023.60	22672023.74	22672023.89	0.2681	0.1112
Mercury	57366-03-06 22:05 G	22673626.35	22673626.42	22673626.48	0.2672	0.2152
Mercury	57373-02-27 20:53 G	22676176.27	22676176.37	22676176.47	0.2675	0.1167
Mercury	57375-09-01 20:53 G	22677092.25	22677092.37	22677092.49	0.2657	0.1693
Mercury	57386-03-02 14:53 G	22680927.01	22680927.12	22680927.23	0.2674	0.0083
Mercury	57388-09-04 02:38 G	22681843.46	22681843.61	22681843.76	0.2658	0.0593
Mercury	57399-03-05 08:53 G	22685677.77	22685677.87	22685677.97	0.2673	0.1212
Mercury	57406-02-27 07:41 G	22688227.75	22688227.82	22688227.88	0.2676	0.2157
Mercury	57412-03-08 02:53 G	22690428.57	22690428.62	22690428.67	0.2672	0.2367
Mercury	57419-03-02 01:41 G	22692978.47	22692978.57	22692978.68	0.2675	0.0941

Mercury	57421-09-03 03:22 G	22693894.51	22693894.64	22693894.77	0.2657	0.1281
Mercury	57432-03-03 19:41 G	22697729.21	22697729.32	22697729.44	0.2674	0.0279
Mercury	57434-09-06 09:07 G	22698645.74	22698645.88	22698646.02	0.2658	0.1017
Mercury	57445-03-06 13:41 G	22702479.98	22702480.07	22702480.17	0.2673	0.1435
Mercury	57452-02-28 12:29 G	22705029.94	22705030.02	22705030.10	0.2676	0.1923
Mercury	57458-03-09 07:41 G	22707230.79	22707230.82	22707230.84	0.2671	0.2585
Mercury	57465-03-02 06:43 G	22709780.67	22709780.78	22709780.88	0.2675	0.0721
Mercury	57467-09-04 09:50 G	22710696.76	22710696.91	22710697.05	0.2657	0.0871
Mercury	57478-03-05 00:43 G	22714531.42	22714531.53	22714531.64	0.2674	0.0482
Mercury	57480-09-06 15:36 G	22715448.02	22715448.15	22715448.28	0.2659	0.1444
Mercury	57491-03-07 18:43 G	22719282.19	22719282.28	22719282.36	0.2673	0.1653
Mercury	57498-02-28 17:17 G	22721832.14	22721832.22	22721832.31	0.2676	0.1692
Venus	57499-04-16 13:55 G	22722243.92	22722244.08	22722244.24	0.2651	0.0050
Mercury	57511-03-04 11:31 G	22726582.87	22726582.98	22726583.09	0.2675	0.0484
Mercury	57513-09-05 16:19 G	22727499.03	22727499.18	22727499.33	0.2657	0.0465
Mercury	57524-03-06 05:31 G	22731333.62	22731333.73	22731333.84	0.2674	0.0703
Mercury	57526-09-08 22:05 G	22732250.31	22732250.42	22732250.53	0.2659	0.1861
Mercury	57537-03-08 23:31 G	22736084.40	22736084.48	22736084.56	0.2672	0.1868
Mercury	57544-03-01 22:19 G	22738634.33	22738634.43	22738634.52	0.2676	0.1465
Mercury	57546-09-03 17:02 G	22739550.14	22739550.21	22739550.29	0.2656	0.2305
Mercury	57557-03-04 16:19 G	22743385.07	22743385.18	22743385.29	0.2675	0.0262
Mercury	57559-09-06 22:34 G	22744301.29	22744301.44	22744301.60	0.2658	0.0092
Mercury	57570-03-07 10:19 G	22748135.83	22748135.93	22748136.04	0.2674	0.0933
Mercury	57572-09-09 04:34 G	22749052.62	22749052.69	22749052.77	0.2659	0.2288
Mercury	57577-02-28 08:53 G	22750685.83	22750685.87	22750685.91	0.2677	0.2456
Mercury	57583-03-10 04:19 G	22752886.61	22752886.68	22752886.75	0.2672	0.2089
Mercury	57590-03-03 03:07 G	22755436.53	22755436.63	22755436.73	0.2676	0.1234
Mercury	57592-09-03 23:31 G	22756352.38	22756352.48	22756352.59	0.2656	0.1900
Venus	57596-10-20 15:50 G	22757860.09	22757860.16	22757860.23	0.2681	0.2396
Mercury	57603-03-05 21:07 G	22760187.27	22760187.38	22760187.50	0.2674	0.0116

Venus	57604-10-18 06:14 G	22760779.62	22760779.76	22760779.90	0.2680	0.1161
Mercury	57605-09-07 05:02 G	22761103.56	22761103.71	22761103.87	0.2658	0.0366
Mercury	57616-03-07 15:22 G	22764938.04	22764938.14	22764938.24	0.2673	0.1151
Mercury	57623-03-01 13:41 G	22767488.01	22767488.07	22767488.13	0.2677	0.2225
Mercury	57629-03-10 09:07 G	22769688.83	22769688.88	22769688.93	0.2672	0.2308
Mercury	57636-03-03 07:55 G	22772238.73	22772238.83	22772238.94	0.2676	0.1006
Mercury	57638-09-05 06:00 G	22773154.62	22773154.75	22773154.87	0.2656	0.1500
Mercury	57649-03-06 02:10 G	22776989.48	22776989.59	22776989.70	0.2674	0.0196
Mercury	57651-09-08 11:31 G	22777905.84	22777905.98	22777906.13	0.2658	0.0780
Mercury	57662-03-08 20:10 G	22781740.24	22781740.34	22781740.43	0.2673	0.1370
Mercury	57669-03-01 18:43 G	22784290.20	22784290.28	22784290.35	0.2677	0.1991
Mercury	57675-03-11 13:55 G	22786491.05	22786491.08	22786491.12	0.2672	0.2521
Mercury	57682-03-04 12:58 G	22789040.93	22789041.04	22789041.14	0.2675	0.0782
Mercury	57684-09-05 12:29 G	22789956.88	22789957.02	22789957.16	0.2657	0.1093
Mercury	57695-03-07 06:58 G	22793791.68	22793791.79	22793791.90	0.2674	0.0417
Mercury	57697-09-08 18:00 G	22794708.11	22794708.25	22794708.39	0.2658	0.1189
Mercury	57708-03-10 00:58 G	22798542.45	22798542.54	22798542.63	0.2673	0.1585
Mercury	57715-03-03 23:31 G	22801092.40	22801092.48	22801092.56	0.2677	0.1763
Mercury	57728-03-05 17:46 G	22805843.13	22805843.24	22805843.35	0.2675	0.0549
Mercury	57730-09-07 18:43 G	22806759.14	22806759.28	22806759.43	0.2657	0.0687
Mercury	57741-03-08 11:46 G	22810593.89	22810593.99	22810594.10	0.2674	0.0646
Venus	57742-04-18 15:36 G	22810999.99	22811000.15	22811000.31	0.2652	0.0091
Mercury	57743-09-11 00:29 G	22811510.40	22811510.52	22811510.65	0.2658	0.1615
Mercury	57754-03-11 05:46 G	22815344.66	22815344.74	22815344.82	0.2673	0.1807
Mercury	57761-03-04 04:19 G	22817894.59	22817894.68	22817894.78	0.2676	0.1533
Mercury	57763-09-05 19:55 G	22818810.28	22818810.33	22818810.38	0.2655	0.2495
Mercury	57774-03-06 22:34 G	22822645.33	22822645.44	22822645.55	0.2675	0.0329
Mercury	57776-09-08 01:12 G	22823561.40	22823561.55	22823561.70	0.2657	0.0277
Mercury	57787-03-09 16:48 G	22827396.09	22827396.20	22827396.30	0.2674	0.0868
Mercury	57789-09-11 06:58 G	22828312.70	22828312.79	22828312.89	0.2658	0.2037

Mercury	57794-03-02 15:07 G	22829946.09	22829946.13	22829946.16	0.2677	0.2525
Mercury	57800-03-12 10:34 G	22832146.87	22832146.94	22832147.01	0.2673	0.2025
Mercury	57807-03-06 09:22 G	22834696.79	22834696.89	22834696.99	0.2676	0.1299
Mercury	57809-09-07 02:10 G	22835612.50	22835612.59	22835612.69	0.2656	0.2106
Mercury	57820-03-08 03:36 G	22839447.53	22839447.65	22839447.76	0.2675	0.0125
Mercury	57822-09-10 07:41 G	22840363.67	22840363.82	22840363.97	0.2657	0.0139
Mercury	57833-03-10 21:36 G	22844198.30	22844198.40	22844198.50	0.2674	0.1086
Mercury	57835-09-13 13:41 G	22845115.01	22845115.07	22845115.12	0.2659	0.2460
Venus	57839-10-23 16:19 G	22846616.11	22846616.18	22846616.26	0.2680	0.2351
Mercury	57840-03-03 19:55 G	22846748.28	22846748.33	22846748.39	0.2677	0.2289
Mercury	57846-03-13 15:22 G	22848949.09	22848949.14	22848949.20	0.2673	0.2242
Venus	57847-10-21 06:58 G	22849535.65	22849535.79	22849535.93	0.2679	0.1190
Mercury	57853-03-06 14:10 G	22851498.99	22851499.09	22851499.20	0.2676	0.1072
Mercury	57855-09-08 08:38 G	22852414.75	22852414.86	22852414.98	0.2656	0.1701
Mercury	57866-03-09 08:24 G	22856249.74	22856249.85	22856249.96	0.2675	0.0131
Mercury	57868-09-10 14:10 G	22857165.94	22857166.09	22857166.24	0.2657	0.0544
Mercury	57879-03-12 02:24 G	22861000.50	22861000.60	22861000.70	0.2674	0.1304
Mercury	57886-03-05 00:43 G	22863550.46	22863550.53	22863550.60	0.2677	0.2063
Mercury	57892-03-13 20:24 G	22865751.31	22865751.35	22865751.39	0.2672	0.2459
Mercury	57899-03-07 19:12 G	22868301.19	22868301.30	22868301.40	0.2676	0.0843
Mercury	57901-09-09 14:53 G	22869216.99	22869217.12	22869217.26	0.2656	0.1311
Mercury	57912-03-10 13:12 G	22873051.94	22873052.05	22873052.16	0.2675	0.0359
Mercury	57914-09-12 20:38 G	22873968.21	22873968.36	22873968.50	0.2658	0.0961
Mercury	57925-03-13 07:12 G	22877802.71	22877802.80	22877802.89	0.2673	0.1526
Mercury	57932-03-06 05:46 G	22880352.66	22880352.74	22880352.82	0.2677	0.1826
Mercury	57945-03-09 00:00 G	22885103.39	22885103.50	22885103.61	0.2676	0.0615
Mercury	57947-09-10 21:22 G	22886019.25	22886019.39	22886019.54	0.2656	0.0904
Mercury	57958-03-11 18:00 G	22889854.14	22889854.25	22889854.36	0.2674	0.0579
Mercury	57960-09-13 03:07 G	22890770.49	22890770.63	22890770.76	0.2658	0.1369
Mercury	57971-03-14 12:00 G	22894604.92	22894605.00	22894605.09	0.2673	0.1748

Mercury	57978-03-07 10:34 G	22897154.85	22897154.94	22897155.03	0.2677	0.1600
Venus	57985-04-20 17:31 G	22899756.07	22899756.23	22899756.39	0.2653	0.0202
Mercury	57991-03-10 04:48 G	22901905.59	22901905.70	22901905.81	0.2676	0.0393
Mercury	57993-09-11 03:50 G	22902821.51	22902821.66	22902821.81	0.2656	0.0497

59TH MILLENNIUM CE

This is a list of transits visible from Earth in the 59th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	58004-03-11 23:02 G		22906656.35	22906656.46	22906656.56	0.2674	0.0803	
Mercury	58006-09-14 09:36 G		22907572.78	22907572.90	22907573.01	0.2658	0.1788	
Mercury	58011-03-05 21:07 G		22909206.36	22909206.38	22909206.41	0.2678	0.2595	
Mercury	58017-03-14 17:02 G		22911407.13	22911407.21	22911407.28	0.2673	0.1964	
Mercury	58024-03-07 15:36 G		22913957.05	22913957.15	22913957.24	0.2677	0.1365	
Mercury	58026-09-09 05:02 G		22914872.64	22914872.71	22914872.78	0.2655	0.2295	
Mercury	58037-03-10 09:50 G		22918707.79	22918707.91	22918708.02	0.2675	0.0194	
Mercury	58039-09-12 10:19 G		22919623.78	22919623.93	22919624.08	0.2657	0.0092	
Mercury	58050-03-13 03:50 G		22923458.56	22923458.66	22923458.76	0.2674	0.1020	
Mercury	58052-09-14 16:05 G		22924375.08	22924375.17	22924375.25	0.2658	0.2204	
Mercury	58057-03-06 02:10 G		22926008.54	22926008.59	22926008.64	0.2678	0.2359	
Mercury	58063-03-15 21:50 G		22928209.35	22928209.41	22928209.47	0.2673	0.2178	
Mercury	58070-03-08 20:24 G		22930759.25	22930759.35	22930759.45	0.2677	0.1139	
Mercury	58072-09-09 11:17 G		22931674.87	22931674.97	22931675.08	0.2655	0.1909	
Venus	58082-10-24 17:02 G		22935372.14	22935372.21	22935372.29	0.2679	0.2331	

Mercury	58083-03-11 14:38 G	22935510.00	22935510.11	22935510.22	0.2675	0.0069
Mercury	58085-09-12 16:48 G	22936426.04	22936426.20	22936426.35	0.2657	0.0324
Venus	58090-10-22 07:41 G	22938291.68	22938291.82	22938291.96	0.2678	0.1207
Mercury	58096-03-13 08:38 G	22940260.76	22940260.86	22940260.96	0.2674	0.1241
Mercury	58098-09-15 22:34 G	22941177.42	22941177.44	22941177.46	0.2658	0.2629
Mercury	58103-03-08 06:58 G	22942810.73	22942810.79	22942810.86	0.2678	0.2128
Mercury	58109-03-17 02:38 G	22945011.56	22945011.61	22945011.66	0.2673	0.2396
Mercury	58116-03-10 01:26 G	22947561.45	22947561.56	22947561.66	0.2676	0.0913
Mercury	58118-09-11 17:46 G	22948477.12	22948477.24	22948477.37	0.2655	0.1505
Mercury	58129-03-12 19:26 G	22952312.20	22952312.31	22952312.42	0.2675	0.0287
Mercury	58131-09-14 23:02 G	22953228.32	22953228.46	22953228.61	0.2657	0.0730
Mercury	58142-03-15 13:41 G	22957062.97	22957063.07	22957063.16	0.2674	0.1465
Mercury	58149-03-08 12:00 G	22959612.92	22959613.00	22959613.08	0.2677	0.1894
Mercury	58155-03-18 07:26 G	22961813.79	22961813.81	22961813.83	0.2673	0.2612
Mercury	58162-03-11 06:14 G	22964363.65	22964363.76	22964363.87	0.2676	0.0681
Mercury	58164-09-12 00:14 G	22965279.37	22965279.51	22965279.64	0.2656	0.1113
Mercury	58175-03-14 00:29 G	22969114.41	22969114.52	22969114.63	0.2675	0.0522
Mercury	58177-09-15 05:31 G	22970030.60	22970030.73	22970030.87	0.2657	0.1145
Mercury	58188-03-15 18:29 G	22973865.18	22973865.27	22973865.35	0.2674	0.1682
Mercury	58195-03-09 16:48 G	22976415.12	22976415.20	22976415.29	0.2677	0.1662
Mercury	58208-03-12 11:02 G	22981165.85	22981165.96	22981166.07	0.2676	0.0456
Mercury	58210-09-14 06:29 G	22982081.63	22982081.77	22982081.92	0.2656	0.0712
Mercury	58221-03-15 05:17 G	22985916.61	22985916.72	22985916.83	0.2675	0.0735
Mercury	58223-09-17 12:00 G	22986832.88	22986833.00	22986833.13	0.2657	0.1546
Mercury	58228-03-08 03:22 G	22988466.63	22988466.64	22988466.65	0.2678	0.2660
Venus	58228-04-22 19:12 G	22988512.14	22988512.30	22988512.46	0.2654	0.0302
Mercury	58234-03-17 23:17 G	22990667.39	22990667.47	22990667.55	0.2674	0.1899
Mercury	58241-03-10 21:36 G	22993217.31	22993217.40	22993217.50	0.2677	0.1440
Mercury	58243-09-12 07:41 G	22994132.78	22994132.82	22994132.87	0.2655	0.2502
Mercury	58254-03-13 16:05 G	22997968.05	22997968.17	22997968.28	0.2676	0.0241

Mercury	58256-09-14 12:58 G	22998883.88	22998884.04	22998884.19	0.2656	0.0319
Mercury	58267-03-16 10:05 G	23002718.82	23002718.92	23002719.03	0.2675	0.0959
Mercury	58269-09-17 18:29 G	23003635.17	23003635.27	23003635.37	0.2658	0.1967
Mercury	58274-03-09 08:24 G	23005268.80	23005268.85	23005268.89	0.2678	0.2432
Mercury	58280-03-18 04:05 G	23007469.61	23007469.67	23007469.74	0.2673	0.2118
Mercury	58287-03-12 02:38 G	23010019.51	23010019.61	23010019.71	0.2677	0.1202
Mercury	58289-09-12 14:10 G	23010935.00	23010935.09	23010935.18	0.2655	0.2102
Mercury	58300-03-14 20:53 G	23014770.26	23014770.37	23014770.48	0.2676	0.0019
Mercury	58302-09-16 19:12 G	23015686.15	23015686.30	23015686.46	0.2656	0.0113
Mercury	58313-03-17 14:53 G	23019521.02	23019521.12	23019521.22	0.2675	0.1181
Mercury	58315-09-20 00:58 G	23020437.47	23020437.54	23020437.61	0.2658	0.2373
Mercury	58320-03-10 13:12 G	23022070.99	23022071.05	23022071.11	0.2678	0.2195
Venus	58325-10-27 17:46 G	23024128.16	23024128.24	23024128.32	0.2679	0.2289
Mercury	58326-03-20 08:53 G	23024271.82	23024271.87	23024271.92	0.2673	0.2336
Mercury	58333-03-13 07:26 G	23026821.71	23026821.81	23026821.92	0.2677	0.0980
Venus	58333-10-25 08:24 G	23027047.71	23027047.85	23027047.99	0.2677	0.1218
Mercury	58335-09-14 20:38 G	23027737.24	23027737.36	23027737.47	0.2655	0.1713
Mercury	58346-03-16 01:41 G	23031572.46	23031572.57	23031572.69	0.2676	0.0240
Mercury	58348-09-17 01:41 G	23032488.42	23032488.57	23032488.72	0.2657	0.0509
Mercury	58359-03-18 19:55 G	23036323.23	23036323.33	23036323.42	0.2674	0.1401
Mercury	58366-03-11 18:00 G	23038873.18	23038873.25	23038873.33	0.2678	0.1965
Mercury	58372-03-20 13:41 G	23041074.04	23041074.07	23041074.10	0.2673	0.2550
Mercury	58379-03-14 12:29 G	23043623.91	23043624.02	23043624.13	0.2677	0.0747
Mercury	58381-09-15 02:53 G	23044539.49	23044539.62	23044539.75	0.2655	0.1310
Mercury	58392-03-16 06:43 G	23048374.67	23048374.78	23048374.89	0.2675	0.0453
Mercury	58394-09-18 08:10 G	23049290.70	23049290.84	23049290.99	0.2657	0.0908
Mercury	58405-03-19 00:43 G	23053125.44	23053125.53	23053125.62	0.2674	0.1617
Mercury	58412-03-11 23:02 G	23055675.37	23055675.46	23055675.54	0.2678	0.1731
Mercury	58425-03-14 17:17 G	23060426.11	23060426.22	23060426.33	0.2677	0.0523
Mercury	58427-09-16 09:07 G	23061341.74	23061341.88	23061342.03	0.2655	0.0925

Mercury	58438-03-17 11:31 G	23065176.87	23065176.98	23065177.09	0.2675	0.0672
Mercury	58440-09-18 14:38 G	23066092.98	23066093.11	23066093.24	0.2657	0.1324
Mercury	58451-03-20 05:31 G	23069927.65	23069927.73	23069927.81	0.2674	0.1835
Mercury	58458-03-13 03:50 G	23072477.57	23072477.66	23072477.76	0.2678	0.1502
Mercury	58471-03-15 22:19 G	23077228.32	23077228.43	23077228.54	0.2676	0.0301
Venus	58471-04-24 21:07 G	23077268.22	23077268.38	23077268.54	0.2655	0.0426
Mercury	58473-09-16 15:36 G	23078144.00	23078144.15	23078144.30	0.2655	0.0519
Mercury	58484-03-17 16:19 G	23081979.08	23081979.18	23081979.29	0.2675	0.0893
Mercury	58486-09-19 21:07 G	23082895.26	23082895.38	23082895.49	0.2657	0.1726
Mercury	58491-03-11 14:24 G	23084529.06	23084529.10	23084529.14	0.2679	0.2497
Mercury	58497-03-20 10:19 G	23086729.86	23086729.93	23086730.00	0.2674	0.2058
Mercury	58504-03-14 08:53 G	23089279.77	23089279.87	23089279.97	0.2677	0.1271
Mercury	58506-09-15 17:02 G	23090195.13	23090195.21	23090195.28	0.2654	0.2298
Mercury	58517-03-17 03:07 G	23094030.52	23094030.63	23094030.74	0.2676	0.0067
Mercury	58519-09-18 22:05 G	23094946.27	23094946.42	23094946.57	0.2656	0.0119
Mercury	58530-03-19 21:22 G	23098781.28	23098781.39	23098781.49	0.2675	0.1122
Mercury	58532-09-21 03:36 G	23099697.56	23099697.65	23099697.74	0.2657	0.2146
Mercury	58537-03-12 19:26 G	23101331.25	23101331.31	23101331.37	0.2679	0.2264
Mercury	58543-03-22 15:22 G	23103532.08	23103532.14	23103532.19	0.2674	0.2274
Mercury	58550-03-15 13:41 G	23106081.97	23106082.07	23106082.18	0.2677	0.1043
Mercury	58552-09-15 23:17 G	23106997.37	23106997.47	23106997.58	0.2654	0.1906
Mercury	58563-03-18 07:55 G	23110832.72	23110832.83	23110832.94	0.2676	0.0172
Mercury	58565-09-19 04:19 G	23111748.53	23111748.68	23111748.84	0.2656	0.0289
Venus	58568-10-28 18:43 G	23112884.20	23112884.28	23112884.36	0.2678	0.2299
Mercury	58576-03-20 02:10 G	23115583.49	23115583.59	23115583.68	0.2675	0.1336
Venus	58576-10-26 09:22 G	23115803.75	23115803.89	23115804.03	0.2676	0.1220
Mercury	58578-09-22 10:05 G	23116499.88	23116499.92	23116499.96	0.2657	0.2552
Mercury	58583-03-14 00:14 G	23118133.44	23118133.51	23118133.58	0.2678	0.2031
Mercury	58589-03-22 20:10 G	23120334.30	23120334.34	23120334.38	0.2674	0.2490
Mercury	58596-03-15 18:43 G	23122884.17	23122884.28	23122884.38	0.2677	0.0815

Mercury	58598-09-17 05:31 G	23123799.61	23123799.73	23123799.86	0.2655	0.1523
Mercury	58609-03-19 12:58 G	23127634.93	23127635.04	23127635.15	0.2676	0.0394
Mercury	58611-09-21 10:48 G	23128550.80	23128550.95	23128551.10	0.2656	0.0682
Mercury	58622-03-22 06:58 G	23132385.70	23132385.79	23132385.88	0.2675	0.1555
Mercury	58629-03-15 05:17 G	23134935.64	23134935.72	23134935.80	0.2678	0.1801
Mercury	58642-03-17 23:31 G	23139686.37	23139686.48	23139686.59	0.2677	0.0584
Mercury	58644-09-18 12:00 G	23140601.87	23140602.00	23140602.14	0.2655	0.1120
Mercury	58655-03-20 17:46 G	23144437.13	23144437.24	23144437.35	0.2676	0.0605
Mercury	58657-09-21 17:17 G	23145353.08	23145353.22	23145353.36	0.2656	0.1086
Mercury	58668-03-22 11:46 G	23149187.91	23149187.99	23149188.08	0.2675	0.1776
Mercury	58675-03-16 10:05 G	23151737.83	23151737.92	23151738.01	0.2678	0.1568
Mercury	58688-03-18 04:19 G	23156488.57	23156488.68	23156488.80	0.2677	0.0375
Mercury	58690-09-19 18:29 G	23157404.12	23157404.27	23157404.42	0.2655	0.0724
Mercury	58701-03-21 22:34 G	23161239.34	23161239.44	23161239.55	0.2676	0.0831
Mercury	58703-09-23 23:46 G	23162155.36	23162155.49	23162155.62	0.2657	0.1501
Mercury	58708-03-14 20:38 G	23163789.33	23163789.36	23163789.39	0.2679	0.2564
Mercury	58714-03-24 16:48 G	23165990.12	23165990.20	23165990.27	0.2674	0.1993
Venus	58714-04-27 22:34 G	23166024.29	23166024.44	23166024.60	0.2655	0.0501
Mercury	58721-03-17 15:07 G	23168540.03	23168540.13	23168540.22	0.2678	0.1337
Mercury	58723-09-18 19:55 G	23169455.28	23169455.33	23169455.38	0.2654	0.2479
Mercury	58734-03-20 09:22 G	23173290.78	23173290.89	23173291.00	0.2677	0.0140
Mercury	58736-09-21 00:43 G	23174206.38	23174206.53	23174206.69	0.2655	0.0335
Mercury	58747-03-23 03:36 G	23178041.54	23178041.65	23178041.75	0.2675	0.1053
Mercury	58749-09-24 06:14 G	23178957.65	23178957.76	23178957.86	0.2657	0.1904
Mercury	58754-03-16 01:26 G	23180591.51	23180591.56	23180591.62	0.2679	0.2333
Mercury	58760-03-24 21:36 G	23182792.34	23182792.40	23182792.46	0.2674	0.2208
Mercury	58767-03-18 19:55 G	23185342.23	23185342.33	23185342.43	0.2678	0.1108
Mercury	58769-09-19 02:10 G	23186257.50	23186257.59	23186257.68	0.2654	0.2097
Mercury	58780-03-20 14:10 G	23190092.98	23190093.09	23190093.20	0.2677	0.0113
Mercury	58782-09-22 07:12 G	23191008.65	23191008.80	23191008.95	0.2655	0.0070

Mercury	58793-03-23 08:24 G	23194843.75	23194843.85	23194843.95	0.2675	0.1273
Mercury	58795-09-25 12:43 G	23195759.95	23195760.03	23195760.10	0.2657	0.2318
Mercury	58800-03-16 06:29 G	23197393.70	23197393.77	23197393.84	0.2679	0.2101
Mercury	58806-03-26 02:24 G	23199594.56	23199594.60	23199594.64	0.2674	0.2423
Venus	58811-10-31 19:26 G	23201640.23	23201640.31	23201640.39	0.2677	0.2267
Mercury	58813-03-19 00:43 G	23202144.43	23202144.53	23202144.64	0.2678	0.0885
Mercury	58815-09-20 08:38 G	23203059.74	23203059.86	23203059.97	0.2654	0.1708
Venus	58819-10-29 10:19 G	23204559.79	23204559.93	23204560.07	0.2675	0.1208
Mercury	58826-03-21 19:12 G	23206895.18	23206895.30	23206895.41	0.2676	0.0331
Mercury	58828-09-22 13:26 G	23207810.91	23207811.06	23207811.21	0.2656	0.0471
Mercury	58839-03-24 13:12 G	23211645.96	23211646.05	23211646.15	0.2675	0.1492
Mercury	58846-03-17 11:17 G	23214195.89	23214195.97	23214196.05	0.2679	0.1869
Mercury	58852-03-26 07:12 G	23216396.79	23216396.80	23216396.82	0.2674	0.2643
Mercury	58859-03-20 05:46 G	23218946.63	23218946.74	23218946.85	0.2677	0.0655
Mercury	58861-09-20 14:53 G	23219861.99	23219862.12	23219862.25	0.2654	0.1324
Mercury	58872-03-22 00:00 G	23223697.39	23223697.50	23223697.61	0.2676	0.0542
Mercury	58874-09-23 19:55 G	23224613.19	23224613.33	23224613.48	0.2656	0.0865
Mercury	58885-03-24 18:14 G	23228448.17	23228448.26	23228448.34	0.2675	0.1715
Mercury	58892-03-17 16:19 G	23230998.09	23230998.18	23230998.27	0.2679	0.1636
Mercury	58905-03-21 10:34 G	23235748.83	23235748.94	23235749.05	0.2677	0.0428
Mercury	58907-09-22 21:07 G	23236664.24	23236664.38	23236664.52	0.2654	0.0935
Mercury	58918-03-24 04:48 G	23240499.60	23240499.70	23240499.81	0.2676	0.0764
Mercury	58920-09-25 02:10 G	23241415.46	23241415.59	23241415.73	0.2656	0.1261
Mercury	58925-03-17 02:38 G	23243049.60	23243049.61	23243049.63	0.2680	0.2639
Mercury	58931-03-26 23:02 G	23245250.38	23245250.46	23245250.53	0.2675	0.1927
Mercury	58938-03-19 21:07 G	23247800.29	23247800.38	23247800.48	0.2678	0.1408
Mercury	58951-03-22 15:36 G	23252551.04	23252551.15	23252551.26	0.2677	0.0205
Mercury	58953-09-23 03:36 G	23253466.50	23253466.65	23253466.79	0.2655	0.0551
Venus	58957-04-29 00:29 G	23254780.36	23254780.52	23254780.67	0.2656	0.0628
Mercury	58964-03-24 09:50 G	23257301.80	23257301.91	23257302.01	0.2676	0.0989

Mercury	58966-09-26 08:38 G	23258217.74	23258217.86	23258217.98	0.2656	0.1668
Mercury	58971-03-18 07:41 G	23259851.77	23259851.82	23259851.87	0.2680	0.2405
Mercury	58977-03-27 03:50 G	23262052.59	23262052.66	23262052.72	0.2675	0.2143
Mercury	58984-03-20 02:10 G	23264602.49	23264602.59	23264602.69	0.2678	0.1179
Mercury	58986-09-21 05:17 G	23265517.64	23265517.72	23265517.79	0.2653	0.2281
Mercury	58997-03-22 20:24 G	23269353.24	23269353.35	23269353.46	0.2677	0.0037
Mercury	58999-09-24 09:50 G	23270268.76	23270268.91	23270269.06	0.2655	0.0152

60TH MILLENNIUM CE

This is a list of transits visible from Earth in the 60th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	59010-03-26 14:38 G		23274104.01	23274104.11	23274104.21	0.2676	0.1203	
Mercury	59012-09-27 15:07 G		23275020.04	23275020.13	23275020.22	0.2657	0.2071	
Mercury	59017-03-19 12:29 G		23276653.96	23276654.02	23276654.09	0.2679	0.2171	
Mercury	59023-03-29 08:38 G		23278854.81	23278854.86	23278854.91	0.2675	0.2363	
Mercury	59030-03-22 06:58 G		23281404.69	23281404.79	23281404.90	0.2678	0.0949	
Mercury	59032-09-22 11:17 G		23282319.87	23282319.97	23282320.08	0.2654	0.1904	
Mercury	59043-03-25 01:26 G		23286155.44	23286155.56	23286155.67	0.2677	0.0268	
Mercury	59045-09-25 16:19 G		23287071.03	23287071.18	23287071.33	0.2655	0.0252	
Venus	59054-11-02 20:24 G		23290396.27	23290396.35	23290396.43	0.2676	0.2274	
Mercury	59056-03-26 19:26 G		23290906.22	23290906.31	23290906.41	0.2676	0.1426	
Mercury	59058-09-28 21:36 G		23291822.35	23291822.40	23291822.45	0.2657	0.2489	
Venus	59062-10-31 11:17 G		23293315.83	23293315.97	23293316.11	0.2675	0.1209	

Mercury	59063-03-20 17:31 G	23293456.15	23293456.23	23293456.31	0.2679	0.1935
Mercury	59069-03-29 13:26 G	23295657.04	23295657.06	23295657.09	0.2674	0.2576
Mercury	59076-03-22 12:00 G	23298206.89	23298207.00	23298207.11	0.2678	0.0721
Mercury	59078-09-23 17:46 G	23299122.12	23299122.24	23299122.36	0.2654	0.1518
Mercury	59089-03-25 06:14 G	23302957.65	23302957.76	23302957.87	0.2677	0.0476
Mercury	59091-09-26 22:34 G	23303873.29	23303873.44	23303873.59	0.2655	0.0645
Mercury	59102-03-29 00:14 G	23307708.43	23307708.51	23307708.60	0.2676	0.1644
Mercury	59109-03-21 22:19 G	23310258.35	23310258.43	23310258.52	0.2679	0.1709
Mercury	59122-03-24 16:48 G	23315009.09	23315009.20	23315009.31	0.2678	0.0494
Mercury	59124-09-25 00:00 G	23315924.36	23315924.50	23315924.64	0.2654	0.1136
Mercury	59135-03-27 11:02 G	23319759.85	23319759.96	23319760.07	0.2677	0.0702
Mercury	59137-09-28 05:02 G	23320675.57	23320675.71	23320675.85	0.2655	0.1043
Mercury	59148-03-29 05:17 G	23324510.64	23324510.72	23324510.80	0.2675	0.1865
Mercury	59155-03-23 03:22 G	23327060.55	23327060.64	23327060.73	0.2679	0.1477
Mercury	59168-03-24 21:50 G	23331811.29	23331811.41	23331811.52	0.2678	0.0286
Mercury	59170-09-26 06:14 G	23332726.62	23332726.76	23332726.91	0.2654	0.0750
Mercury	59181-03-27 16:05 G	23336562.06	23336562.17	23336562.27	0.2676	0.0925
Mercury	59183-09-29 11:17 G	23337477.85	23337477.97	23337478.10	0.2656	0.1444
Mercury	59188-03-20 13:41 G	23339112.03	23339112.07	23339112.11	0.2680	0.2476
Mercury	59194-03-30 10:05 G	23341312.85	23341312.92	23341312.99	0.2675	0.2082
Venus	59200-05-01 01:41 G	23343536.42	23343536.57	23343536.73	0.2657	0.0685
Mercury	59201-03-23 08:10 G	23343862.74	23343862.84	23343862.94	0.2679	0.1249
Mercury	59203-09-24 07:55 G	23344777.78	23344777.83	23344777.88	0.2653	0.2476
Mercury	59214-03-26 02:38 G	23348613.50	23348613.61	23348613.72	0.2677	0.0050
Mercury	59216-09-26 12:43 G	23349528.88	23349529.03	23349529.18	0.2654	0.0360
Mercury	59227-03-28 20:53 G	23353364.27	23353364.37	23353364.47	0.2676	0.1141
Mercury	59229-09-29 17:46 G	23354280.13	23354280.24	23354280.35	0.2656	0.1844
Mercury	59234-03-21 18:43 G	23355914.22	23355914.28	23355914.34	0.2680	0.2241
Mercury	59240-03-30 14:53 G	23358115.07	23358115.12	23358115.18	0.2675	0.2300
Mercury	59247-03-24 13:12 G	23360664.95	23360665.05	23360665.15	0.2678	0.1017

Mercury	59249-09-24	14:24	G	23361580.01	23361580.10	23361580.19	0.2653	0.2091
Mercury	59260-03-26	07:26	G	23365415.70	23365415.81	23365415.92	0.2677	0.0191
Mercury	59262-09-27	18:58	G	23366331.14	23366331.29	23366331.44	0.2655	0.0050
Mercury	59273-03-29	01:41	G	23370166.48	23370166.57	23370166.67	0.2676	0.1358
Mercury	59275-10-01	00:14	G	23371082.43	23371082.51	23371082.59	0.2656	0.2242
Mercury	59280-03-21	23:31	G	23372716.41	23372716.48	23372716.56	0.2680	0.2012
Mercury	59286-03-31	19:55	G	23374917.29	23374917.33	23374917.36	0.2675	0.2513
Mercury	59293-03-24	18:00	G	23377467.15	23377467.25	23377467.36	0.2678	0.0794
Mercury	59295-09-25	20:38	G	23378382.24	23378382.36	23378382.47	0.2653	0.1710
Venus	59297-11-03	21:22	G	23379152.30	23379152.39	23379152.47	0.2675	0.2273
Venus	59305-11-02	12:14	G	23382071.87	23382072.01	23382072.15	0.2674	0.1193
Mercury	59306-03-28	12:29	G	23382217.91	23382218.02	23382218.13	0.2677	0.0413
Mercury	59308-09-29	01:26	G	23383133.41	23383133.56	23383133.71	0.2655	0.0430
Mercury	59319-03-31	06:43	G	23386968.69	23386968.78	23386968.86	0.2676	0.1584
Mercury	59321-10-02	06:43	G	23387884.77	23387884.78	23387884.78	0.2656	0.2651
Mercury	59326-03-24	04:34	G	23389518.61	23389518.69	23389518.77	0.2680	0.1777
Mercury	59339-03-26	23:02	G	23394269.35	23394269.46	23394269.57	0.2678	0.0566
Mercury	59341-09-27	02:53	G	23395184.49	23395184.62	23395184.75	0.2653	0.1326
Mercury	59352-03-28	17:17	G	23399020.11	23399020.22	23399020.33	0.2677	0.0629
Mercury	59354-09-30	07:41	G	23399935.68	23399935.82	23399935.97	0.2655	0.0829
Mercury	59365-03-31	11:31	G	23403770.90	23403770.98	23403771.06	0.2676	0.1797
Mercury	59372-03-24	09:22	G	23406320.80	23406320.89	23406320.99	0.2679	0.1550
Mercury	59385-03-27	03:50	G	23411071.55	23411071.66	23411071.77	0.2678	0.0337
Mercury	59387-09-28	09:07	G	23411986.74	23411986.88	23411987.03	0.2654	0.0944
Mercury	59398-03-29	22:05	G	23415822.32	23415822.42	23415822.53	0.2677	0.0858
Mercury	59400-10-01	14:10	G	23416737.96	23416738.09	23416738.23	0.2655	0.1222
Mercury	59405-03-23	19:55	G	23418372.30	23418372.33	23418372.36	0.2680	0.2548
Mercury	59411-04-02	16:19	G	23420573.11	23420573.18	23420573.25	0.2676	0.2017
Mercury	59418-03-26	14:24	G	23423123.00	23423123.10	23423123.20	0.2679	0.1314
Mercury	59420-09-26	11:02	G	23424037.95	23424037.96	23424037.97	0.2652	0.2646

Mercury	59431-03-29 08:53 G	23427873.75	23427873.87	23427873.98	0.2678	0.0140
Mercury	59433-09-29 15:36 G	23428789.00	23428789.15	23428789.30	0.2654	0.0559
Venus	59443-05-04 03:22 G	23432292.49	23432292.64	23432292.79	0.2658	0.0792
Mercury	59444-03-31 03:07 G	23432624.53	23432624.63	23432624.73	0.2677	0.1076
Mercury	59446-10-02 20:24 G	23433540.23	23433540.35	23433540.47	0.2655	0.1616
Mercury	59451-03-25 00:43 G	23435174.48	23435174.53	23435174.59	0.2680	0.2315
Venus	59451-05-01 18:29 G	23435212.24	23435212.27	23435212.30	0.2659	0.2591
Mercury	59457-04-02 21:07 G	23437375.33	23437375.38	23437375.44	0.2676	0.2234
Mercury	59464-03-26 19:12 G	23439925.20	23439925.30	23439925.41	0.2679	0.1092
Mercury	59466-09-27 17:17 G	23440840.14	23440840.22	23440840.29	0.2652	0.2278
Mercury	59477-03-29 13:41 G	23444675.96	23444676.07	23444676.18	0.2678	0.0122
Mercury	59479-09-30 21:50 G	23445591.26	23445591.41	23445591.56	0.2654	0.0173
Mercury	59490-04-01 07:55 G	23449426.74	23449426.83	23449426.93	0.2677	0.1298
Mercury	59492-10-03 02:53 G	23450342.52	23450342.62	23450342.72	0.2656	0.2015
Mercury	59497-03-25 05:46 G	23451976.67	23451976.74	23451976.81	0.2680	0.2082
Mercury	59503-04-05 02:10 G	23454177.55	23454177.59	23454177.63	0.2675	0.2450
Mercury	59510-03-29 00:14 G	23456727.40	23456727.51	23456727.62	0.2679	0.0860
Mercury	59512-09-28 23:31 G	23457642.38	23457642.48	23457642.59	0.2653	0.1898
Mercury	59523-03-31 18:29 G	23461478.16	23461478.27	23461478.39	0.2678	0.0353
Mercury	59525-10-02 04:05 G	23462393.52	23462393.67	23462393.82	0.2654	0.0216
Mercury	59536-04-02 12:58 G	23466228.94	23466229.04	23466229.13	0.2676	0.1517
Mercury	59538-10-05 09:07 G	23467144.82	23467144.88	23467144.95	0.2656	0.2410
Venus	59540-11-06 22:19 G	23467908.34	23467908.43	23467908.51	0.2674	0.2266
Mercury	59543-03-27 10:34 G	23468778.86	23468778.94	23468779.02	0.2680	0.1852
Venus	59548-11-04 13:12 G	23470827.91	23470828.05	23470828.19	0.2673	0.1175
Mercury	59549-04-05 06:58 G	23470979.78	23470979.79	23470979.80	0.2675	0.2664
Mercury	59556-03-29 05:02 G	23473529.60	23473529.71	23473529.82	0.2679	0.0635
Mercury	59558-09-30 05:46 G	23474444.62	23474444.74	23474444.87	0.2653	0.1521
Mercury	59569-03-31 23:31 G	23478280.37	23478280.48	23478280.59	0.2677	0.0563
Mercury	59571-10-03 10:34 G	23479195.79	23479195.94	23479196.09	0.2654	0.0608

Mercury	59582-04-03 17:46 G	23483031.15	23483031.24	23483031.32	0.2676	0.1733
Mercury	59589-03-27 15:36 G	23485581.06	23485581.15	23485581.24	0.2680	0.1617
Mercury	59602-03-30 10:05 G	23490331.81	23490331.92	23490332.03	0.2679	0.0406
Mercury	59604-09-30 12:14 G	23491246.87	23491247.01	23491247.14	0.2653	0.1137
Mercury	59615-04-02 04:19 G	23495082.58	23495082.68	23495082.79	0.2677	0.0789
Mercury	59617-10-03 16:48 G	23495998.06	23495998.20	23495998.34	0.2655	0.0995
Mercury	59622-03-26 01:55 G	23497632.56	23497632.58	23497632.60	0.2681	0.2619
Mercury	59628-04-03 22:34 G	23499833.37	23499833.44	23499833.52	0.2676	0.1948
Mercury	59635-03-28 20:24 G	23502383.26	23502383.35	23502383.45	0.2680	0.1390
Mercury	59648-03-30 14:53 G	23507134.01	23507134.12	23507134.24	0.2678	0.0199
Mercury	59650-10-01 18:29 G	23508049.12	23508049.27	23508049.41	0.2653	0.0760
Mercury	59661-04-02 09:22 G	23511884.78	23511884.89	23511884.99	0.2677	0.1009
Mercury	59663-10-04 23:17 G	23512800.34	23512800.47	23512800.60	0.2655	0.1395
Mercury	59668-03-26 06:58 G	23514434.74	23514434.79	23514434.83	0.2681	0.2389
Mercury	59674-04-05 03:22 G	23516635.58	23516635.64	23516635.71	0.2676	0.2168
Mercury	59681-03-29 01:26 G	23519185.46	23519185.56	23519185.66	0.2680	0.1155
Mercury	59683-09-29 20:24 G	23520100.29	23520100.35	23520100.40	0.2652	0.2447
Venus	59686-05-05 04:34 G	23521048.54	23521048.69	23521048.84	0.2659	0.0865
Mercury	59694-03-31 19:55 G	23523936.22	23523936.33	23523936.44	0.2678	0.0066
Venus	59694-05-02 19:55 G	23523968.28	23523968.33	23523968.38	0.2660	0.2509
Mercury	59696-10-02 00:43 G	23524851.38	23524851.53	23524851.68	0.2653	0.0375
Mercury	59707-04-04 14:10 G	23528686.99	23528687.09	23528687.19	0.2677	0.1227
Mercury	59709-10-06 05:31 G	23529602.62	23529602.73	23529602.84	0.2655	0.1788
Mercury	59714-03-28 11:46 G	23531236.93	23531236.99	23531237.06	0.2680	0.2153
Mercury	59720-04-06 08:24 G	23533437.80	23533437.85	23533437.90	0.2676	0.2384
Mercury	59727-03-31 06:29 G	23535987.66	23535987.77	23535987.87	0.2679	0.0933
Mercury	59729-10-01 02:38 G	23536902.52	23536902.61	23536902.70	0.2652	0.2084
Mercury	59740-04-02 00:43 G	23540738.42	23540738.53	23540738.65	0.2678	0.0283
Mercury	59742-10-04 06:58 G	23541653.64	23541653.79	23541653.94	0.2654	0.0049
Mercury	59753-04-04 18:58 G	23545489.20	23545489.29	23545489.39	0.2677	0.1450

Mercury	59755-10-07 12:00 G	23546404.92	23546405.00	23546405.08	0.2655	0.2186
Mercury	59760-03-28 16:48 G	23548039.12	23548039.20	23548039.28	0.2680	0.1920
Mercury	59766-04-07 13:12 G	23550240.03	23550240.05	23550240.07	0.2676	0.2599
Mercury	59773-03-31 11:17 G	23552789.86	23552789.97	23552790.08	0.2679	0.0698
Mercury	59775-10-02 08:53 G	23553704.75	23553704.87	23553704.98	0.2652	0.1705
Venus	59783-11-08 23:17 G	23556664.40	23556664.47	23556664.55	0.2673	0.2301
Mercury	59786-04-03 05:46 G	23557540.63	23557540.74	23557540.85	0.2678	0.0502
Mercury	59788-10-04 13:12 G	23558455.91	23558456.05	23558456.20	0.2654	0.0401
Venus	59791-11-06 14:24 G	23559583.96	23559584.10	23559584.24	0.2672	0.1148
Mercury	59799-04-06 00:00 G	23562291.41	23562291.50	23562291.58	0.2677	0.1669
Mercury	59801-10-08 18:29 G	23563207.24	23563207.27	23563207.30	0.2655	0.2586
Mercury	59806-03-30 21:36 G	23564841.32	23564841.40	23564841.49	0.2680	0.1690
Mercury	59819-04-02 16:19 G	23569592.06	23569592.18	23569592.29	0.2679	0.0483
Mercury	59821-10-03 14:53 G	23570507.00	23570507.12	23570507.25	0.2653	0.1340
Mercury	59832-04-04 10:34 G	23574342.83	23574342.94	23574343.05	0.2678	0.0720
Mercury	59834-10-06 19:41 G	23575258.17	23575258.32	23575258.46	0.2654	0.0785
Mercury	59845-04-07 04:48 G	23579093.62	23579093.70	23579093.78	0.2676	0.1886
Mercury	59852-03-31 02:38 G	23581643.52	23581643.61	23581643.70	0.2680	0.1456
Mercury	59865-04-02 21:07 G	23586394.27	23586394.38	23586394.49	0.2679	0.0246
Mercury	59867-10-04 21:22 G	23587309.25	23587309.39	23587309.53	0.2653	0.0955
Mercury	59878-04-05 15:22 G	23591145.04	23591145.14	23591145.25	0.2678	0.0942
Mercury	59880-10-07 01:55 G	23592060.45	23592060.58	23592060.72	0.2654	0.1170
Mercury	59885-03-29 12:58 G	23593695.00	23593695.04	23593695.08	0.2681	0.2458
Mercury	59891-04-08 09:36 G	23595895.84	23595895.90	23595895.97	0.2676	0.2106
Mercury	59898-04-01 07:26 G	23598445.71	23598445.81	23598445.92	0.2680	0.1233
Mercury	59900-10-02 23:17 G	23599360.46	23599360.47	23599360.49	0.2651	0.2628
Mercury	59911-04-05 01:55 G	23603196.47	23603196.58	23603196.70	0.2679	0.0096
Mercury	59913-10-06 03:36 G	23604111.50	23604111.65	23604111.80	0.2653	0.0570
Mercury	59924-04-06 20:24 G	23607947.25	23607947.35	23607947.45	0.2677	0.1163
Mercury	59926-10-09 08:24 G	23608862.73	23608862.85	23608862.97	0.2655	0.1569

Venus	59929-05-08 06:00 G	23609804.60	23609804.75	23609804.90	0.2660	0.0943
Mercury	59931-03-31 18:00 G	23610497.18	23610497.25	23610497.31	0.2681	0.2226
Mercury	59937-04-09 14:38 G	23612698.05	23612698.11	23612698.16	0.2676	0.2320
Venus	59937-05-05 21:07 G	23612724.32	23612724.38	23612724.44	0.2661	0.2437
Mercury	59944-04-02 12:29 G	23615247.92	23615248.02	23615248.13	0.2680	0.0996
Mercury	59946-10-04 05:31 G	23616162.66	23616162.73	23616162.81	0.2652	0.2253
Mercury	59957-04-05 06:58 G	23619998.68	23619998.79	23619998.90	0.2679	0.0208
Mercury	59959-10-07 10:05 G	23620913.76	23620913.92	23620914.07	0.2653	0.0204
Mercury	59970-04-08 01:12 G	23624749.46	23624749.55	23624749.65	0.2677	0.1382
Mercury	59972-10-09 14:38 G	23625665.01	23625665.11	23625665.22	0.2655	0.1963
Mercury	59977-03-31 22:48 G	23627299.38	23627299.45	23627299.53	0.2681	0.1990
Mercury	59983-04-10 19:26 G	23629500.28	23629500.31	23629500.34	0.2676	0.2536
Mercury	59990-04-03 17:31 G	23632050.12	23632050.23	23632050.33	0.2680	0.0776
Mercury	59992-10-04 11:46 G	23632964.89	23632964.99	23632965.10	0.2652	0.1890

61ST MILLENNIUM CE

This is a list of transits visible from Earth in the 61st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	60003-04-06 11:46 G		23636800.88	23636800.99	23636801.10	0.2679	0.0437	
Mercury	60005-10-07 16:19 G		23637716.03	23637716.18	23637716.33	0.2653	0.0204	
Mercury	60016-04-08 06:14 G		23641551.67	23641551.76	23641551.85	0.2677	0.1604	
Mercury	60018-10-10 21:07 G		23642467.31	23642467.38	23642467.45	0.2655	0.2362	
Mercury	60023-04-02 03:50 G		23644101.57	23644101.66	23644101.74	0.2681	0.1759	

Venus	60026-11-11 00:29 G	23645420.44	23645420.52	23645420.59	0.2672	0.2305
Venus	60034-11-08 15:36 G	23648340.01	23648340.15	23648340.30	0.2671	0.1102
Mercury	60036-04-03 22:19 G	23648852.32	23648852.43	23648852.54	0.2679	0.0538
Mercury	60038-10-05 18:14 G	23649767.13	23649767.26	23649767.38	0.2652	0.1511
Mercury	60049-04-06 16:48 G	23653603.09	23653603.20	23653603.31	0.2678	0.0655
Mercury	60051-10-08 22:34 G	23654518.29	23654518.44	23654518.59	0.2653	0.0578
Mercury	60062-04-09 11:02 G	23658353.88	23658353.96	23658354.04	0.2677	0.1823
Mercury	60069-04-02 08:38 G	23660903.77	23660903.86	23660903.96	0.2680	0.1530
Mercury	60082-04-05 03:22 G	23665654.52	23665654.64	23665654.75	0.2679	0.0334
Mercury	60084-10-06 00:14 G	23666569.38	23666569.51	23666569.65	0.2652	0.1143
Mercury	60095-04-07 21:36 G	23670405.30	23670405.40	23670405.51	0.2678	0.0881
Mercury	60097-10-09 04:48 G	23671320.56	23671320.70	23671320.85	0.2654	0.0973
Mercury	60102-04-01 18:58 G	23672955.26	23672955.29	23672955.33	0.2682	0.2532
Mercury	60108-04-10 15:50 G	23675156.09	23675156.16	23675156.24	0.2677	0.2043
Mercury	60115-04-04 13:41 G	23677705.97	23677706.07	23677706.17	0.2680	0.1296
Mercury	60128-04-06 08:10 G	23682456.73	23682456.84	23682456.95	0.2679	0.0088
Mercury	60130-10-08 06:43 G	23683371.63	23683371.78	23683371.92	0.2652	0.0766
Mercury	60141-04-09 02:38 G	23687207.50	23687207.61	23687207.71	0.2678	0.1098
Mercury	60143-10-11 11:02 G	23688122.83	23688122.96	23688123.09	0.2654	0.1350
Mercury	60148-04-02 00:00 G	23689757.44	23689757.50	23689757.55	0.2681	0.2297
Mercury	60154-04-11 20:53 G	23691958.31	23691958.37	23691958.43	0.2677	0.2258
Mercury	60161-04-04 18:29 G	23694508.17	23694508.27	23694508.38	0.2680	0.1073
Mercury	60163-10-06 08:38 G	23695422.81	23695422.86	23695422.92	0.2651	0.2432
Venus	60172-05-09 07:26 G	23698560.66	23698560.81	23698560.96	0.2661	0.1039
Mercury	60174-04-07 13:12 G	23699258.93	23699259.05	23699259.16	0.2679	0.0168
Mercury	60176-10-08 12:43 G	23700173.89	23700174.03	23700174.18	0.2653	0.0398
Venus	60180-05-06 22:19 G	23701480.36	23701480.43	23701480.51	0.2662	0.2361
Mercury	60187-04-10 07:26 G	23704009.71	23704009.81	23704009.91	0.2678	0.1320
Mercury	60189-10-11 17:31 G	23704925.12	23704925.23	23704925.34	0.2654	0.1743
Mercury	60194-04-03 04:48 G	23706559.63	23706559.70	23706559.78	0.2681	0.2068

Mercury	60200-04-13 01:41 G	23708760.53	23708760.57	23708760.61	0.2676	0.2471
Mercury	60207-04-06 23:31 G	23711310.37	23711310.48	23711310.59	0.2680	0.0837
Mercury	60209-10-07 15:07 G	23712225.03	23712225.13	23712225.22	0.2651	0.2056
Mercury	60220-04-08 18:00 G	23716061.14	23716061.25	23716061.36	0.2679	0.0363
Mercury	60222-10-10 19:12 G	23716976.15	23716976.30	23716976.45	0.2653	0.0032
Mercury	60233-04-11 12:29 G	23720811.92	23720812.02	23720812.11	0.2678	0.1541
Mercury	60235-10-13 23:46 G	23721727.40	23721727.49	23721727.58	0.2654	0.2128
Mercury	60240-04-04 09:50 G	23723361.83	23723361.91	23723361.99	0.2681	0.1830
Mercury	60253-04-07 04:19 G	23728112.57	23728112.68	23728112.80	0.2680	0.0622
Mercury	60255-10-08 21:07 G	23729027.27	23729027.38	23729027.50	0.2652	0.1690
Mercury	60266-04-09 23:02 G	23732863.35	23732863.46	23732863.57	0.2679	0.0593
Mercury	60268-10-11 01:26 G	23733778.41	23733778.56	23733778.71	0.2653	0.0386
Venus	60269-11-13 01:55 G	23734176.51	23734176.58	23734176.65	0.2671	0.2365
Venus	60277-11-10 17:02 G	23737096.06	23737096.21	23737096.36	0.2670	0.1048
Mercury	60279-04-12 17:17 G	23737614.14	23737614.22	23737614.30	0.2677	0.1758
Mercury	60281-10-14 06:14 G	23738529.72	23738529.76	23738529.80	0.2655	0.2531
Mercury	60286-04-05 14:53 G	23740164.03	23740164.12	23740164.21	0.2681	0.1598
Mercury	60299-04-08 09:22 G	23744914.78	23744914.89	23744915.00	0.2680	0.0381
Mercury	60301-10-10 03:22 G	23745829.51	23745829.64	23745829.77	0.2652	0.1316
Mercury	60312-04-11 03:50 G	23749665.55	23749665.66	23749665.77	0.2679	0.0809
Mercury	60314-10-13 07:41 G	23750580.68	23750580.82	23750580.97	0.2653	0.0761
Mercury	60319-04-05 00:58 G	23752215.52	23752215.54	23752215.57	0.2682	0.2604
Mercury	60325-04-13 22:05 G	23754416.35	23754416.42	23754416.50	0.2677	0.1974
Mercury	60332-04-06 19:41 G	23756966.23	23756966.32	23756966.42	0.2681	0.1367
Mercury	60345-04-09 14:24 G	23761716.99	23761717.10	23761717.21	0.2680	0.0159
Mercury	60347-10-11 09:36 G	23762631.76	23762631.90	23762632.04	0.2652	0.0952
Mercury	60358-04-12 08:38 G	23766467.76	23766467.86	23766467.97	0.2679	0.1041
Mercury	60360-10-13 14:10 G	23767382.95	23767383.09	23767383.22	0.2653	0.1149
Mercury	60365-04-05 06:00 G	23769017.70	23769017.75	23769017.80	0.2682	0.2372
Mercury	60371-04-15 02:53 G	23771218.56	23771218.62	23771218.69	0.2677	0.2195

Mercury	60378-04-08 00:43 G	23773768.43	23773768.53	23773768.63	0.2681	0.1136
Mercury	60380-10-08 12:00 G	23774682.97	23774683.00	23774683.02	0.2651	0.2594
Mercury	60391-04-10 19:12 G	23778519.19	23778519.30	23778519.42	0.2679	0.0098
Mercury	60393-10-11 15:50 G	23779434.02	23779434.16	23779434.31	0.2652	0.0573
Mercury	60404-04-12 13:41 G	23783269.97	23783270.07	23783270.17	0.2678	0.1252
Mercury	60406-10-14 20:24 G	23784185.23	23784185.35	23784185.47	0.2654	0.1527
Mercury	60411-04-06 11:02 G	23785819.89	23785819.96	23785820.02	0.2682	0.2137
Venus	60415-05-12 08:38 G	23787316.71	23787316.86	23787317.00	0.2662	0.1106
Mercury	60417-04-15 07:55 G	23788020.78	23788020.83	23788020.88	0.2677	0.2411
Venus	60423-05-09 23:46 G	23790236.41	23790236.49	23790236.57	0.2663	0.2284
Mercury	60424-04-08 05:31 G	23790570.63	23790570.73	23790570.84	0.2681	0.0914
Mercury	60426-10-09 18:00 G	23791485.17	23791485.25	23791485.33	0.2651	0.2236
Mercury	60437-04-11 00:14 G	23795321.39	23795321.51	23795321.62	0.2679	0.0301
Mercury	60439-10-12 22:05 G	23796236.27	23796236.42	23796236.57	0.2652	0.0205
Mercury	60450-04-13 18:29 G	23800072.18	23800072.27	23800072.37	0.2678	0.1476
Mercury	60452-10-15 02:53 G	23800987.51	23800987.62	23800987.72	0.2654	0.1922
Mercury	60457-04-06 15:50 G	23802622.08	23802622.16	23802622.24	0.2682	0.1903
Mercury	60463-04-16 12:43 G	23804823.02	23804823.03	23804823.05	0.2677	0.2626
Mercury	60470-04-09 10:34 G	23807372.83	23807372.94	23807373.05	0.2680	0.0677
Mercury	60472-10-10 00:14 G	23808287.41	23808287.51	23808287.62	0.2651	0.1866
Mercury	60483-04-12 05:02 G	23812123.60	23812123.71	23812123.82	0.2679	0.0520
Mercury	60485-10-13 04:19 G	23813038.53	23813038.68	23813038.83	0.2652	0.0180
Mercury	60496-04-13 23:31 G	23816874.39	23816874.48	23816874.56	0.2678	0.1693
Mercury	60498-10-16 09:07 G	23817789.80	23817789.88	23817789.95	0.2654	0.2302
Mercury	60503-04-08 20:53 G	23819424.28	23819424.37	23819424.46	0.2681	0.1670
Venus	60512-11-15 03:07 G	23822932.56	23822932.63	23822932.69	0.2670	0.2392
Mercury	60516-04-10 15:36 G	23824175.04	23824175.15	23824175.26	0.2680	0.0455
Mercury	60518-10-12 06:29 G	23825089.65	23825089.77	23825089.89	0.2651	0.1501
Venus	60520-11-12 18:14 G	23825852.12	23825852.26	23825852.41	0.2669	0.1004
Mercury	60529-04-13 10:05 G	23828925.81	23828925.92	23828926.02	0.2679	0.0749

Mercury	60531-10-15 10:48 G	23829840.80	23829840.95	23829841.09	0.2653	0.0562
Mercury	60536-04-06 06:58 G	23831475.79	23831475.79	23831475.80	0.2683	0.2679
Mercury	60542-04-16 04:19 G	23833676.60	23833676.68	23833676.76	0.2678	0.1911
Mercury	60549-04-09 01:55 G	23836226.48	23836226.58	23836226.67	0.2681	0.1439
Mercury	60562-04-11 20:24 G	23840977.24	23840977.35	23840977.46	0.2680	0.0225
Mercury	60564-10-12 12:43 G	23841891.90	23841892.03	23841892.17	0.2651	0.1125
Mercury	60575-04-14 14:53 G	23845728.02	23845728.12	23845728.23	0.2679	0.0963
Mercury	60577-10-15 17:02 G	23846643.07	23846643.21	23846643.35	0.2653	0.0939
Mercury	60582-04-07 12:00 G	23848277.96	23848278.00	23848278.05	0.2682	0.2441
Mercury	60588-04-16 09:22 G	23850478.82	23850478.89	23850478.95	0.2678	0.2131
Mercury	60595-04-10 06:43 G	23853028.68	23853028.78	23853028.88	0.2681	0.1207
Mercury	60608-04-13 01:26 G	23857779.44	23857779.56	23857779.67	0.2680	0.0086
Mercury	60610-10-14 18:58 G	23858694.15	23858694.29	23858694.43	0.2652	0.0757
Mercury	60621-04-15 19:55 G	23862530.22	23862530.33	23862530.43	0.2679	0.1192
Mercury	60623-10-17 23:17 G	23863445.34	23863445.47	23863445.60	0.2653	0.1328
Mercury	60628-04-08 17:02 G	23865080.15	23865080.21	23865080.27	0.2682	0.2205
Mercury	60634-04-18 14:10 G	23867281.04	23867281.09	23867281.14	0.2677	0.2345
Mercury	60641-04-11 11:46 G	23869830.88	23869830.99	23869831.10	0.2681	0.0975
Mercury	60643-10-12 21:22 G	23870745.33	23870745.39	23870745.45	0.2650	0.2397
Mercury	60654-04-14 06:14 G	23874581.65	23874581.76	23874581.87	0.2680	0.0232
Mercury	60656-10-15 01:12 G	23875496.40	23875496.55	23875496.70	0.2652	0.0386
Venus	60658-05-14 09:50 G	23876072.77	23876072.91	23876073.06	0.2663	0.1194
Venus	60666-05-12 00:58 G	23878992.45	23878992.54	23878992.62	0.2664	0.2214
Mercury	60667-04-17 00:43 G	23879332.43	23879332.53	23879332.62	0.2679	0.1406
Mercury	60669-10-18 05:31 G	23880247.62	23880247.73	23880247.85	0.2653	0.1705
Mercury	60674-04-09 22:05 G	23881882.34	23881882.42	23881882.49	0.2682	0.1976
Mercury	60680-04-18 18:58 G	23884083.26	23884083.29	23884083.32	0.2677	0.2561
Mercury	60687-04-12 16:34 G	23886633.09	23886633.19	23886633.30	0.2681	0.0755
Mercury	60689-10-13 03:22 G	23887547.55	23887547.64	23887547.73	0.2650	0.2039
Mercury	60700-04-15 11:17 G	23891383.86	23891383.97	23891384.08	0.2680	0.0456

Mercury	60702-10-17 07:26 G	23892298.66	23892298.81	23892298.96	0.2652	0.0020
Mercury	60713-04-18 05:46 G	23896134.65	23896134.74	23896134.82	0.2678	0.1634
Mercury	60715-10-20 12:00 G	23897049.91	23897050.00	23897050.09	0.2653	0.2095
Mercury	60720-04-11 02:53 G	23898684.54	23898684.62	23898684.71	0.2682	0.1743
Mercury	60733-04-13 21:36 G	23903435.29	23903435.40	23903435.51	0.2681	0.0520
Mercury	60735-10-15 09:36 G	23904349.79	23904349.90	23904350.01	0.2651	0.1675
Mercury	60746-04-16 16:05 G	23908186.06	23908186.17	23908186.28	0.2679	0.0678
Mercury	60748-10-17 13:41 G	23909100.92	23909101.07	23909101.22	0.2652	0.0360
Venus	60755-11-18 04:34 G	23911688.63	23911688.69	23911688.75	0.2669	0.2453
Mercury	60759-04-19 10:34 G	23912936.86	23912936.94	23912937.02	0.2678	0.1846
Mercury	60761-10-20 18:14 G	23913852.21	23913852.26	23913852.31	0.2654	0.2473
Venus	60763-11-15 19:55 G	23914608.18	23914608.33	23914608.48	0.2668	0.0917
Mercury	60766-04-12 07:55 G	23915486.73	23915486.83	23915486.92	0.2682	0.1510
Mercury	60779-04-15 02:24 G	23920237.49	23920237.60	23920237.72	0.2681	0.0313
Mercury	60781-10-15 15:50 G	23921152.03	23921152.16	23921152.29	0.2651	0.1312
Mercury	60792-04-16 21:07 G	23924988.27	23924988.38	23924988.48	0.2679	0.0900
Mercury	60794-10-18 19:55 G	23925903.19	23925903.33	23925903.48	0.2652	0.0737
Mercury	60799-04-10 18:00 G	23927538.22	23927538.25	23927538.29	0.2683	0.2517
Mercury	60805-04-19 15:22 G	23929739.07	23929739.14	23929739.21	0.2678	0.2066
Mercury	60812-04-12 12:43 G	23932288.94	23932289.03	23932289.13	0.2682	0.1284
Mercury	60825-04-15 07:26 G	23937039.70	23937039.81	23937039.92	0.2680	0.0071
Mercury	60827-10-16 22:05 G	23937954.28	23937954.42	23937954.56	0.2651	0.0942
Mercury	60838-04-18 01:55 G	23941790.48	23941790.58	23941790.68	0.2679	0.1121
Mercury	60840-10-19 02:10 G	23942705.45	23942705.59	23942705.73	0.2653	0.1111
Mercury	60845-04-10 23:02 G	23944340.40	23944340.46	23944340.52	0.2683	0.2283
Mercury	60851-04-20 20:24 G	23946541.29	23946541.35	23946541.40	0.2678	0.2280
Mercury	60858-04-13 17:46 G	23949091.14	23949091.24	23949091.34	0.2682	0.1050
Mercury	60860-10-14 00:29 G	23950005.49	23950005.52	23950005.55	0.2650	0.2559
Mercury	60871-04-16 12:29 G	23953841.90	23953842.02	23953842.13	0.2680	0.0168
Mercury	60873-10-17 04:19 G	23954756.53	23954756.68	23954756.82	0.2651	0.0576

Mercury	60884-04-18 06:58 G	23958592.69	23958592.79	23958592.88	0.2679	0.1343
Mercury	60886-10-20 08:38 G	23959507.73	23959507.86	23959507.98	0.2653	0.1500
Mercury	60891-04-12 04:05 G	23961142.59	23961142.67	23961142.74	0.2683	0.2050
Mercury	60897-04-21 01:12 G	23963343.51	23963343.55	23963343.59	0.2678	0.2497
Venus	60901-05-16 10:48 G	23964828.81	23964828.95	23964829.09	0.2664	0.1256
Mercury	60904-04-14 22:48 G	23965893.34	23965893.45	23965893.56	0.2681	0.0822
Mercury	60906-10-16 06:43 G	23966807.70	23966807.78	23966807.86	0.2650	0.2201
Venus	60909-05-14 01:41 G	23967748.48	23967748.57	23967748.66	0.2665	0.2169
Mercury	60917-04-17 17:17 G	23970644.11	23970644.22	23970644.33	0.2680	0.0388
Mercury	60919-10-19 10:34 G	23971558.79	23971558.94	23971559.09	0.2651	0.0209
Mercury	60930-04-20 11:46 G	23975394.90	23975394.99	23975395.08	0.2679	0.1560
Mercury	60932-10-21 14:53 G	23976310.01	23976310.12	23976310.22	0.2653	0.1880
Mercury	60937-04-13 08:53 G	23977944.79	23977944.87	23977944.96	0.2682	0.1816
Mercury	60950-04-16 03:36 G	23982695.54	23982695.65	23982695.76	0.2681	0.0594
Mercury	60952-10-16 12:43 G	23983609.93	23983610.03	23983610.14	0.2650	0.1844
Mercury	60963-04-18 22:19 G	23987446.32	23987446.43	23987446.54	0.2680	0.0609
Mercury	60965-10-19 16:48 G	23988361.05	23988361.20	23988361.35	0.2652	0.0178
Mercury	60976-04-20 16:34 G	23992197.11	23992197.19	23992197.28	0.2679	0.1784
Mercury	60978-10-22 21:07 G	23993112.31	23993112.38	23993112.46	0.2653	0.2266
Mercury	60983-04-14 13:55 G	23994746.99	23994747.08	23994747.17	0.2682	0.1581
Mercury	60996-04-16 08:38 G	23999497.75	23999497.86	23999497.97	0.2681	0.0361
Mercury	60998-10-17 18:58 G	24000412.17	24000412.29	24000412.41	0.2650	0.1482
Venus	60998-11-19 05:46 G	24000444.69	24000444.74	24000444.80	0.2668	0.2490

62ND MILLENNIUM CE

This is a list of transits visible from Earth in the 62nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	61006-11-17 21:07	G	24003364.23	24003364.38	24003364.53	0.2667	0.0884	
Mercury	61009-04-20 03:07	G	24004248.53	24004248.63	24004248.74	0.2680	0.0836	
Mercury	61011-10-21 23:02	G	24005163.31	24005163.46	24005163.60	0.2652	0.0545	
Mercury	61016-04-13 00:00	G	24006798.47	24006798.50	24006798.53	0.2683	0.2592	
Mercury	61022-04-22 21:36	G	24008999.33	24008999.40	24008999.47	0.2679	0.1997	
Mercury	61024-10-24 03:22	G	24009914.64	24009914.64	24009914.65	0.2653	0.2649	
Mercury	61029-04-15 18:58	G	24011549.19	24011549.29	24011549.38	0.2682	0.1356	
Mercury	61042-04-18 13:41	G	24016299.95	24016300.07	24016300.18	0.2681	0.0156	
Mercury	61044-10-19 01:12	G	24017214.41	24017214.55	24017214.68	0.2651	0.1127	
Mercury	61055-04-21 08:10	G	24021050.73	24021050.84	24021050.94	0.2680	0.1055	
Mercury	61057-10-22 05:17	G	24021965.58	24021965.72	24021965.86	0.2652	0.0917	
Mercury	61062-04-14 05:02	G	24023600.66	24023600.71	24023600.76	0.2683	0.2359	
Mercury	61068-04-23 02:24	G	24025801.54	24025801.60	24025801.66	0.2678	0.2219	
Mercury	61075-04-16 23:46	G	24028351.39	24028351.49	24028351.60	0.2682	0.1123	
Mercury	61088-04-18 18:29	G	24033102.16	24033102.27	24033102.38	0.2681	0.0092	
Mercury	61090-10-20 07:12	G	24034016.66	24034016.80	24034016.95	0.2651	0.0763	
Mercury	61101-04-22 12:58	G	24037852.94	24037853.04	24037853.14	0.2680	0.1274	
Mercury	61103-10-24 11:31	G	24038767.85	24038767.98	24038768.11	0.2652	0.1290	
Mercury	61108-04-15 10:05	G	24040402.85	24040402.92	24040402.98	0.2683	0.2126	
Mercury	61114-04-25 07:26	G	24042603.76	24042603.81	24042603.85	0.2678	0.2432	
Mercury	61121-04-18 04:48	G	24045153.59	24045153.70	24045153.81	0.2682	0.0891	
Mercury	61123-10-19 09:50	G	24046067.85	24046067.91	24046067.97	0.2650	0.2369	
Mercury	61134-04-20 23:31	G	24049904.36	24049904.48	24049904.59	0.2681	0.0324	
Mercury	61136-10-21 13:26	G	24050818.92	24050819.06	24050819.21	0.2651	0.0397	
Venus	61144-05-18 12:00	G	24053584.86	24053585.00	24053585.14	0.2665	0.1310	
Mercury	61147-04-23 18:00	G	24054655.15	24054655.25	24054655.34	0.2679	0.1497	

Mercury	61149-10-24 17:46 G	24055570.12	24055570.24	24055570.36	0.2652	0.1668
Venus	61152-05-16 02:53 G	24056504.52	24056504.62	24056504.72	0.2666	0.2095
Mercury	61154-04-16 14:53 G	24057205.04	24057205.12	24057205.20	0.2683	0.1890
Mercury	61160-04-25 12:14 G	24059406.00	24059406.01	24059406.02	0.2678	0.2647
Mercury	61167-04-19 09:50 G	24061955.80	24061955.91	24061956.02	0.2682	0.0665
Mercury	61169-10-19 16:05 G	24062870.07	24062870.17	24062870.26	0.2650	0.2006
Mercury	61180-04-21 04:19 G	24066706.57	24066706.68	24066706.79	0.2680	0.0539
Mercury	61182-10-22 19:55 G	24067621.18	24067621.33	24067621.47	0.2651	0.0084
Mercury	61193-04-23 22:48 G	24071457.37	24071457.45	24071457.54	0.2679	0.1713
Mercury	61195-10-26 00:00 G	24072372.41	24072372.50	24072372.59	0.2653	0.2047
Mercury	61200-04-16 19:55 G	24074007.24	24074007.33	24074007.42	0.2683	0.1657
Mercury	61213-04-19 14:38 G	24078758.00	24078758.11	24078758.23	0.2682	0.0437
Mercury	61215-10-20 22:05 G	24079672.31	24079672.42	24079672.54	0.2650	0.1654
Mercury	61226-04-22 09:22 G	24083508.78	24083508.89	24083509.00	0.2680	0.0766
Mercury	61228-10-23 01:55 G	24084423.44	24084423.58	24084423.73	0.2651	0.0360
Mercury	61233-04-15 06:00 G	24086058.74	24086058.75	24086058.76	0.2684	0.2670
Mercury	61239-04-25 03:50 G	24088259.58	24088259.66	24088259.73	0.2679	0.1934
Mercury	61241-10-26 06:14 G	24089174.71	24089174.76	24089174.82	0.2653	0.2434
Venus	61241-11-21 07:12 G	24089200.76	24089200.80	24089200.85	0.2668	0.2557
Mercury	61246-04-18 00:58 G	24090809.44	24090809.54	24090809.64	0.2683	0.1422
Venus	61249-11-18 22:48 G	24092120.30	24092120.45	24092120.60	0.2666	0.0786
Mercury	61259-04-20 19:41 G	24095560.20	24095560.32	24095560.43	0.2681	0.0211
Mercury	61261-10-21 04:19 G	24096474.55	24096474.68	24096474.81	0.2650	0.1292
Mercury	61272-04-22 14:10 G	24100310.99	24100311.09	24100311.20	0.2680	0.0985
Mercury	61274-10-24 08:10 G	24101225.70	24101225.84	24101225.99	0.2651	0.0721
Mercury	61279-04-16 11:02 G	24102860.91	24102860.96	24102861.00	0.2684	0.2432
Mercury	61285-04-25 08:38 G	24105061.80	24105061.86	24105061.93	0.2679	0.2150
Mercury	61292-04-18 06:00 G	24107611.64	24107611.75	24107611.85	0.2682	0.1198
Mercury	61305-04-22 00:29 G	24112362.41	24112362.52	24112362.64	0.2681	0.0089
Mercury	61307-10-23 10:34 G	24113276.80	24113276.94	24113277.08	0.2650	0.0931

Mercury	61318-04-24	19:12	G	24117113.20	24117113.30	24117113.40	0.2680	0.1209
Mercury	61320-10-25	14:24	G	24118027.97	24118028.10	24118028.24	0.2652	0.1095
Mercury	61325-04-17	16:05	G	24119663.10	24119663.17	24119663.23	0.2684	0.2199
Mercury	61331-04-27	13:26	G	24121864.01	24121864.06	24121864.11	0.2679	0.2370
Mercury	61338-04-20	10:48	G	24124413.85	24124413.95	24124414.06	0.2682	0.0962
Mercury	61340-10-20	13:12	G	24125328.01	24125328.05	24125328.09	0.2649	0.2525
Mercury	61351-04-23	05:31	G	24129164.62	24129164.73	24129164.84	0.2681	0.0246
Mercury	61353-10-23	16:48	G	24130079.05	24130079.20	24130079.34	0.2650	0.0577
Mercury	61364-04-25	00:00	G	24133915.41	24133915.50	24133915.60	0.2680	0.1430
Mercury	61366-10-26	20:38	G	24134830.24	24134830.36	24134830.49	0.2652	0.1463
Mercury	61371-04-18	20:53	G	24136465.30	24136465.37	24136465.45	0.2683	0.1965
Mercury	61377-04-27	18:29	G	24138666.24	24138666.27	24138666.30	0.2679	0.2582
Mercury	61384-04-20	15:50	G	24141216.05	24141216.16	24141216.27	0.2682	0.0738
Mercury	61386-10-21	19:12	G	24142130.22	24142130.30	24142130.38	0.2649	0.2179
Venus	61387-05-20	12:58	G	24142340.90	24142341.04	24142341.17	0.2666	0.1375
Venus	61395-05-18	03:22	G	24145260.55	24145260.64	24145260.74	0.2667	0.2080
Mercury	61397-04-23	10:34	G	24145966.82	24145966.94	24145967.05	0.2681	0.0482
Mercury	61399-10-24	22:48	G	24146881.30	24146881.45	24146881.60	0.2651	0.0212
Mercury	61410-04-27	05:02	G	24150717.62	24150717.71	24150717.80	0.2680	0.1648
Mercury	61412-10-28	02:53	G	24151632.52	24151632.62	24151632.73	0.2652	0.1841
Mercury	61417-04-20	01:55	G	24153267.49	24153267.58	24153267.67	0.2683	0.1732
Mercury	61430-04-22	20:38	G	24158018.25	24158018.36	24158018.48	0.2682	0.0511
Mercury	61432-10-23	01:26	G	24158932.45	24158932.56	24158932.67	0.2649	0.1818
Mercury	61443-04-25	15:22	G	24162769.03	24162769.14	24162769.25	0.2681	0.0693
Mercury	61445-10-26	05:02	G	24163683.56	24163683.71	24163683.86	0.2651	0.0154
Mercury	61456-04-27	09:50	G	24167519.83	24167519.91	24167519.99	0.2680	0.1867
Mercury	61458-10-29	09:07	G	24168434.80	24168434.88	24168434.96	0.2652	0.2213
Mercury	61463-04-21	06:58	G	24170069.69	24170069.79	24170069.88	0.2683	0.1500
Mercury	61476-04-23	01:41	G	24174820.46	24174820.57	24174820.68	0.2682	0.0279
Mercury	61478-10-24	07:26	G	24175734.69	24175734.81	24175734.94	0.2650	0.1466

Venus	61484-11-23 08:53 G	24177956.84	24177956.87	24177956.90	0.2666	0.2609
Mercury	61489-04-25 20:24 G	24179571.24	24179571.35	24179571.45	0.2681	0.0919
Mercury	61491-10-27 11:17 G	24180485.83	24180485.97	24180486.12	0.2651	0.0530
Venus	61492-11-21 00:14 G	24180876.36	24180876.51	24180876.66	0.2665	0.0729
Mercury	61496-04-18 17:02 G	24182121.17	24182121.21	24182121.25	0.2684	0.2510
Mercury	61502-04-29 14:53 G	24184322.05	24184322.12	24184322.19	0.2679	0.2086
Mercury	61504-10-30 15:36 G	24185237.12	24185237.15	24185237.17	0.2652	0.2597
Mercury	61509-04-22 11:46 G	24186871.89	24186871.99	24186872.10	0.2683	0.1269
Mercury	61522-04-25 06:43 G	24191622.66	24191622.78	24191622.89	0.2682	0.0094
Mercury	61524-10-25 13:41 G	24192536.94	24192537.07	24192537.21	0.2650	0.1104
Mercury	61535-04-28 01:12 G	24196373.45	24196373.55	24196373.65	0.2680	0.1139
Mercury	61537-10-28 17:31 G	24197288.09	24197288.23	24197288.37	0.2651	0.0895
Mercury	61542-04-20 22:05 G	24198923.36	24198923.42	24198923.47	0.2684	0.2273
Mercury	61548-04-29 19:41 G	24201124.26	24201124.32	24201124.38	0.2679	0.2300
Mercury	61555-04-23 16:48 G	24203674.10	24203674.20	24203674.31	0.2683	0.1037
Mercury	61568-04-25 11:31 G	24208424.87	24208424.98	24208425.10	0.2682	0.0197
Mercury	61570-10-26 19:55 G	24209339.18	24209339.33	24209339.47	0.2650	0.0753
Mercury	61581-04-28 06:14 G	24213175.66	24213175.76	24213175.85	0.2680	0.1362
Mercury	61583-10-29 23:46 G	24214090.36	24214090.49	24214090.62	0.2651	0.1272
Mercury	61588-04-21 02:53 G	24215725.55	24215725.62	24215725.70	0.2684	0.2041
Mercury	61594-05-01 00:29 G	24217926.49	24217926.52	24217926.56	0.2679	0.2518
Mercury	61601-04-23 21:50 G	24220476.30	24220476.41	24220476.52	0.2683	0.0802
Mercury	61603-10-24 22:34 G	24221390.37	24221390.44	24221390.51	0.2649	0.2329
Mercury	61614-04-26 16:34 G	24225227.08	24225227.19	24225227.30	0.2681	0.0402
Mercury	61616-10-27 01:55 G	24226141.44	24226141.58	24226141.73	0.2650	0.0395
Mercury	61627-04-29 11:02 G	24229977.87	24229977.96	24229978.05	0.2680	0.1582
Mercury	61629-10-30 06:00 G	24230892.63	24230892.75	24230892.87	0.2652	0.1639
Venus	61630-05-22 13:41 G	24231096.94	24231097.07	24231097.21	0.2667	0.1419
Mercury	61634-04-22 07:55 G	24232527.75	24232527.83	24232527.91	0.2684	0.1805
Venus	61638-05-20 04:34 G	24234016.59	24234016.69	24234016.79	0.2668	0.1997

Mercury	61647-04-25 02:53 G	24237278.50	24237278.62	24237278.73	0.2682	0.0585
Mercury	61649-10-25 04:34 G	24238192.60	24238192.69	24238192.79	0.2649	0.1988
Mercury	61660-04-26 21:36 G	24242029.29	24242029.40	24242029.51	0.2681	0.0634
Mercury	61662-10-28 08:10 G	24242943.69	24242943.84	24242943.99	0.2650	0.0057
Mercury	61673-04-29 16:05 G	24246780.08	24246780.17	24246780.25	0.2680	0.1803
Mercury	61675-10-31 12:14 G	24247694.92	24247695.01	24247695.11	0.2652	0.2018
Mercury	61680-04-22 12:58 G	24249329.95	24249330.04	24249330.13	0.2684	0.1571
Mercury	61693-04-25 07:41 G	24254080.71	24254080.82	24254080.94	0.2682	0.0353
Mercury	61695-10-26 10:48 G	24254994.83	24254994.95	24254995.06	0.2649	0.1629
Mercury	61706-04-29 02:24 G	24258831.49	24258831.60	24258831.71	0.2681	0.0848
Mercury	61708-10-29 14:24 G	24259745.95	24259746.10	24259746.25	0.2650	0.0336
Mercury	61713-04-21 22:48 G	24261381.43	24261381.45	24261381.48	0.2685	0.2587
Mercury	61719-05-01 20:53 G	24263582.30	24263582.37	24263582.44	0.2680	0.2020
Mercury	61721-11-01 18:29 G	24264497.21	24264497.27	24264497.33	0.2652	0.2391
Mercury	61726-04-24 17:46 G	24266132.15	24266132.24	24266132.34	0.2683	0.1345
Venus	61735-11-24 02:10 G	24269632.43	24269632.59	24269632.74	0.2664	0.0631
Mercury	61739-04-27 12:43 G	24270882.92	24270883.03	24270883.14	0.2682	0.0120
Mercury	61741-10-27 16:48 G	24271797.07	24271797.20	24271797.33	0.2649	0.1283
Mercury	61752-04-29 07:26 G	24275633.70	24275633.81	24275633.91	0.2681	0.1078
Mercury	61754-10-30 20:38 G	24276548.22	24276548.36	24276548.50	0.2651	0.0707
Mercury	61759-04-23 03:50 G	24278183.61	24278183.66	24278183.71	0.2684	0.2352
Mercury	61765-05-02 01:55 G	24280384.52	24280384.58	24280384.64	0.2680	0.2238
Mercury	61772-04-24 22:48 G	24282934.35	24282934.45	24282934.56	0.2683	0.1110
Mercury	61785-04-27 17:46 G	24287685.12	24287685.24	24287685.35	0.2682	0.0150
Mercury	61787-10-28 23:02 G	24288599.33	24288599.46	24288599.60	0.2649	0.0917
Mercury	61798-04-30 12:14 G	24292435.91	24292436.01	24292436.11	0.2681	0.1292
Mercury	61800-11-01 02:53 G	24293350.48	24293350.62	24293350.75	0.2651	0.1072
Mercury	61805-04-24 08:53 G	24294985.80	24294985.87	24294985.94	0.2684	0.2112
Mercury	61811-05-04 06:43 G	24297186.74	24297186.78	24297186.82	0.2680	0.2457
Mercury	61818-04-27 03:50 G	24299736.55	24299736.66	24299736.77	0.2683	0.0878

Mercury	61820-10-27 01:55 G	24300650.53	24300650.58	24300650.63	0.2648	0.2485
Mercury	61831-04-29 22:34 G	24304487.33	24304487.44	24304487.55	0.2682	0.0332
Mercury	61833-10-30 05:17 G	24305401.58	24305401.72	24305401.87	0.2650	0.0556
Mercury	61844-05-01 17:17 G	24309238.12	24309238.22	24309238.31	0.2681	0.1518
Mercury	61846-11-02 09:07 G	24310152.76	24310152.88	24310153.01	0.2651	0.1451
Mercury	61851-04-25 13:55 G	24311788.00	24311788.08	24311788.16	0.2684	0.1877
Mercury	61857-05-04 11:46 G	24313988.98	24313988.99	24313988.99	0.2679	0.2670
Mercury	61864-04-27 08:53 G	24316538.76	24316538.87	24316538.98	0.2683	0.0646
Mercury	61866-10-28 08:10 G	24317452.75	24317452.84	24317452.92	0.2648	0.2134
Venus	61873-05-24 14:38 G	24319852.98	24319853.11	24319853.25	0.2668	0.1487
Mercury	61877-04-30 03:36 G	24321289.54	24321289.65	24321289.76	0.2682	0.0562
Mercury	61879-10-31 11:31 G	24322203.83	24322203.98	24322204.13	0.2650	0.0203
Venus	61881-05-22 05:17 G	24322772.61	24322772.72	24322772.82	0.2669	0.1979
Mercury	61890-05-02 22:05 G	24326040.34	24326040.42	24326040.51	0.2681	0.1735
Mercury	61892-11-02 15:22 G	24326955.03	24326955.14	24326955.25	0.2651	0.1817
Mercury	61897-04-25 18:58 G	24328590.20	24328590.29	24328590.38	0.2684	0.1643
Mercury	61910-04-29 13:41 G	24333340.96	24333341.07	24333341.19	0.2683	0.0430
Mercury	61912-10-29 14:10 G	24334254.98	24334255.09	24334255.20	0.2648	0.1791
Mercury	61923-05-02 08:24 G	24338091.75	24338091.85	24338091.96	0.2682	0.0791
Mercury	61925-11-01 17:31 G	24339006.09	24339006.23	24339006.38	0.2650	0.0177
Mercury	61930-04-25 04:48 G	24340641.69	24340641.70	24340641.71	0.2685	0.2663
Mercury	61936-05-04 03:07 G	24342842.55	24342842.63	24342842.70	0.2680	0.1956
Mercury	61938-11-04 21:36 G	24343757.32	24343757.40	24343757.48	0.2651	0.2192
Mercury	61943-04-28 00:00 G	24345392.40	24345392.50	24345392.59	0.2684	0.1416
Mercury	61956-04-29 18:43 G	24350143.17	24350143.28	24350143.39	0.2683	0.0187
Mercury	61958-10-30 20:24 G	24351057.22	24351057.35	24351057.47	0.2649	0.1436
Mercury	61969-05-02 13:26 G	24354893.95	24354894.06	24354894.17	0.2681	0.1006
Mercury	61971-11-02 23:46 G	24355808.35	24355808.49	24355808.64	0.2650	0.0523
Mercury	61976-04-25 09:50 G	24357443.86	24357443.91	24357443.96	0.2685	0.2424
Venus	61978-11-26 03:50 G	24358388.50	24358388.66	24358388.81	0.2663	0.0528

Mercury	61982-05-05 07:55 G	24359644.77	24359644.83	24359644.90	0.2680	0.2177
Mercury	61984-11-05 03:50 G	24360559.62	24360559.66	24360559.69	0.2652	0.2559
Mercury	61989-04-28 04:48 G	24362194.60	24362194.70	24362194.81	0.2684	0.1181

63RD MILLENNIUM CE

This is a list of transits visible from Earth in the 63rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	62002-04-30 23:46 G		24366945.37	24366945.49	24366945.60	0.2682	0.0092	
Mercury	62004-10-31 02:24 G		24367859.47	24367859.60	24367859.73	0.2649	0.1086	
Mercury	62015-05-03 18:29 G		24371696.17	24371696.27	24371696.37	0.2681	0.1233	
Mercury	62017-11-03 06:00 G		24372610.61	24372610.75	24372610.89	0.2650	0.0889	
Mercury	62022-04-26 14:53 G		24374246.06	24374246.12	24374246.19	0.2685	0.2188	
Mercury	62028-05-05 12:58 G		24376446.99	24376447.04	24376447.09	0.2680	0.2391	
Mercury	62035-04-29 09:50 G		24378996.80	24378996.91	24378997.02	0.2684	0.0947	
Mercury	62037-10-29 05:17 G		24379910.71	24379910.72	24379910.74	0.2648	0.2632	
Mercury	62048-05-01 04:34 G		24383747.58	24383747.69	24383747.81	0.2682	0.0278	
Mercury	62050-11-01 08:38 G		24384661.71	24384661.86	24384662.00	0.2649	0.0733	
Mercury	62061-05-03 23:17 G		24388498.38	24388498.47	24388498.57	0.2681	0.1448	
Mercury	62063-11-04 12:00 G		24389412.87	24389413.00	24389413.14	0.2650	0.1249	
Mercury	62068-04-26 19:55 G		24391048.25	24391048.33	24391048.41	0.2685	0.1954	
Mercury	62074-05-06 17:46 G		24393249.22	24393249.24	24393249.26	0.2680	0.2607	
Mercury	62081-04-29 14:53 G		24395799.01	24395799.12	24395799.23	0.2683	0.0723	
Mercury	62083-10-30 11:31 G		24396712.91	24396712.98	24396713.05	0.2648	0.2286	

Mercury	62094-05-02 09:36 G	24400549.79	24400549.90	24400550.01	0.2682	0.0492
Mercury	62096-11-01 14:38 G	24401463.96	24401464.11	24401464.26	0.2649	0.0377
Mercury	62107-05-06 04:19 G	24405300.59	24405300.68	24405300.77	0.2681	0.1673
Mercury	62109-11-05 18:29 G	24406215.15	24406215.27	24406215.38	0.2651	0.1623
Mercury	62114-04-29 00:58 G	24407850.45	24407850.54	24407850.62	0.2685	0.1723
Venus	62116-05-26 15:22 G	24408609.01	24408609.14	24408609.27	0.2669	0.1536
Venus	62124-05-24 06:00 G	24411528.64	24411528.75	24411528.86	0.2670	0.1918
Mercury	62127-05-01 19:41 G	24412601.21	24412601.32	24412601.44	0.2683	0.0496
Mercury	62129-10-31 17:31 G	24413515.13	24413515.23	24413515.33	0.2648	0.1936
Mercury	62140-05-03 14:38 G	24417352.00	24417352.11	24417352.22	0.2682	0.0719
Mercury	62142-11-03 20:53 G	24418266.22	24418266.37	24418266.52	0.2649	0.0026
Mercury	62153-05-06 09:07 G	24422102.80	24422102.88	24422102.96	0.2681	0.1889
Mercury	62155-11-07 00:29 G	24423017.43	24423017.52	24423017.62	0.2651	0.1988
Mercury	62160-04-29 05:46 G	24424652.65	24424652.74	24424652.84	0.2684	0.1485
Mercury	62173-05-02 00:43 G	24429403.42	24429403.53	24429403.65	0.2683	0.0261
Mercury	62175-11-01 23:31 G	24430317.37	24430317.48	24430317.60	0.2648	0.1596
Mercury	62186-05-04 19:26 G	24434154.21	24434154.31	24434154.42	0.2682	0.0943
Mercury	62188-11-04 03:07 G	24435068.48	24435068.63	24435068.77	0.2650	0.0354
Mercury	62193-04-27 15:50 G	24436704.12	24436704.16	24436704.20	0.2685	0.2500
Mercury	62199-05-07 14:10 G	24438905.02	24438905.09	24438905.15	0.2681	0.2110
Mercury	62201-11-08 06:58 G	24439819.72	24439819.79	24439819.85	0.2651	0.2367
Mercury	62206-05-01 10:48 G	24441454.85	24441454.95	24441455.05	0.2684	0.1251
Mercury	62219-05-04 05:46 G	24446205.63	24446205.74	24446205.85	0.2683	0.0028
Mercury	62221-11-03 05:46 G	24447119.61	24447119.74	24447119.87	0.2648	0.1243
Venus	62221-11-28 05:31 G	24447144.58	24447144.73	24447144.89	0.2662	0.0434
Mercury	62232-05-06 00:29 G	24450956.42	24450956.52	24450956.62	0.2682	0.1162
Mercury	62234-11-06 09:07 G	24451870.74	24451870.88	24451871.02	0.2650	0.0703
Mercury	62239-04-29 20:53 G	24453506.31	24453506.37	24453506.43	0.2685	0.2266
Mercury	62245-05-08 18:58 G	24455707.24	24455707.29	24455707.35	0.2681	0.2325
Mercury	62252-05-01 15:50 G	24458257.05	24458257.16	24458257.27	0.2684	0.1019

Mercury	62265-05-04 10:48 G	24463007.83	24463007.95	24463008.06	0.2683	0.0205
Mercury	62267-11-04 11:46 G	24463921.85	24463921.99	24463922.13	0.2649	0.0900
Mercury	62278-05-07 05:31 G	24467758.63	24467758.73	24467758.82	0.2682	0.1390
Mercury	62280-11-06 15:22 G	24468673.01	24468673.14	24468673.28	0.2650	0.1070
Mercury	62285-04-30 01:41 G	24470308.50	24470308.57	24470308.65	0.2685	0.2031
Mercury	62291-05-10 00:00 G	24472509.46	24472509.50	24472509.53	0.2680	0.2544
Mercury	62298-05-02 20:53 G	24475059.26	24475059.37	24475059.48	0.2684	0.0790
Mercury	62300-11-02 14:53 G	24475973.07	24475973.12	24475973.17	0.2647	0.2436
Mercury	62311-05-06 15:36 G	24479810.04	24479810.15	24479810.27	0.2683	0.0427
Mercury	62313-11-05 18:00 G	24480724.10	24480724.25	24480724.39	0.2649	0.0545
Mercury	62324-05-08 10:19 G	24484560.84	24484560.93	24484561.02	0.2681	0.1604
Mercury	62326-11-08 21:36 G	24485475.27	24485475.40	24485475.52	0.2650	0.1429
Mercury	62331-05-02 06:43 G	24487110.70	24487110.78	24487110.87	0.2685	0.1794
Mercury	62344-05-04 01:55 G	24491861.46	24491861.58	24491861.69	0.2684	0.0569
Mercury	62346-11-03 20:53 G	24492775.28	24492775.37	24492775.46	0.2648	0.2097
Mercury	62357-05-06 20:38 G	24496612.25	24496612.36	24496612.47	0.2683	0.0646
Venus	62359-05-29 16:19 G	24497365.06	24497365.18	24497365.31	0.2670	0.1593
Mercury	62359-11-07 00:00 G	24497526.36	24497526.50	24497526.65	0.2649	0.0200
Venus	62367-05-27 06:43 G	24500284.67	24500284.78	24500284.89	0.2671	0.1876
Mercury	62370-05-09 15:22 G	24501363.05	24501363.14	24501363.22	0.2681	0.1829
Mercury	62372-11-09 03:50 G	24502277.55	24502277.66	24502277.77	0.2650	0.1799
Mercury	62377-05-02 11:46 G	24503912.90	24503912.99	24503913.09	0.2685	0.1559
Mercury	62390-05-05 06:43 G	24508663.67	24508663.78	24508663.90	0.2684	0.0337
Mercury	62392-11-04 03:07 G	24509577.52	24509577.63	24509577.74	0.2648	0.1748
Mercury	62403-05-08 01:26 G	24513414.46	24513414.56	24513414.67	0.2682	0.0879
Mercury	62405-11-07 06:14 G	24514328.61	24514328.76	24514328.91	0.2649	0.0167
Mercury	62410-04-30 21:36 G	24515964.37	24515964.40	24515964.43	0.2686	0.2578
Mercury	62416-05-09 20:10 G	24518165.27	24518165.34	24518165.41	0.2681	0.2042
Mercury	62418-11-10 09:50 G	24519079.83	24519079.91	24519080.00	0.2651	0.2163
Mercury	62423-05-03 16:48 G	24520715.10	24520715.20	24520715.30	0.2685	0.1325

Mercury	62436-05-05 11:46 G	24525465.88	24525465.99	24525466.10	0.2683	0.0102
Mercury	62438-11-05 09:07 G	24526379.76	24526379.88	24526380.00	0.2648	0.1403
Mercury	62449-05-08 06:29 G	24530216.67	24530216.77	24530216.88	0.2682	0.1096
Mercury	62451-11-08 12:29 G	24531130.87	24531131.02	24531131.16	0.2649	0.0529
Mercury	62456-05-01 02:38 G	24532766.56	24532766.61	24532766.67	0.2686	0.2340
Mercury	62462-05-11 01:12 G	24534967.49	24534967.55	24534967.61	0.2681	0.2265
Mercury	62464-11-10 16:19 G	24535882.14	24535882.18	24535882.22	0.2651	0.2538
Venus	62464-11-29 07:41 G	24535900.66	24535900.82	24535900.98	0.2661	0.0304
Mercury	62469-05-03 21:50 G	24537517.30	24537517.41	24537517.51	0.2685	0.1092
Mercury	62482-05-06 16:48 G	24542268.08	24542268.20	24542268.31	0.2683	0.0157
Mercury	62484-11-05 15:07 G	24543182.00	24543182.13	24543182.27	0.2648	0.1055
Mercury	62495-05-09 11:31 G	24547018.88	24547018.98	24547019.08	0.2682	0.1318
Mercury	62497-11-08 18:43 G	24547933.14	24547933.28	24547933.41	0.2649	0.0893
Mercury	62502-05-03 07:41 G	24549568.75	24549568.82	24549568.89	0.2685	0.2103
Mercury	62508-05-12 06:00 G	24551769.71	24551769.75	24551769.79	0.2681	0.2481
Mercury	62515-05-06 02:53 G	24554319.51	24554319.62	24554319.73	0.2684	0.0861
Mercury	62517-11-04 18:14 G	24555233.24	24555233.26	24555233.29	0.2647	0.2581
Mercury	62528-05-07 21:36 G	24559070.29	24559070.40	24559070.52	0.2683	0.0358
Mercury	62530-11-07 21:22 G	24559984.25	24559984.39	24559984.53	0.2648	0.0703
Mercury	62541-05-10 16:19 G	24563821.09	24563821.18	24563821.28	0.2682	0.1542
Mercury	62543-11-11 00:43 G	24564735.40	24564735.53	24564735.66	0.2650	0.1253
Mercury	62548-05-03 12:43 G	24566370.95	24566371.03	24566371.11	0.2685	0.1867
Mercury	62561-05-06 07:55 G	24571121.71	24571121.83	24571121.94	0.2684	0.0638
Mercury	62563-11-06 00:29 G	24572035.44	24572035.52	24572035.59	0.2647	0.2240
Mercury	62574-05-09 02:38 G	24575872.50	24575872.61	24575872.72	0.2683	0.0581
Mercury	62576-11-08 03:22 G	24576786.50	24576786.64	24576786.79	0.2648	0.0362
Mercury	62587-05-11 21:22 G	24580623.31	24580623.39	24580623.47	0.2682	0.1760
Mercury	62589-11-11 06:58 G	24581537.67	24581537.79	24581537.91	0.2650	0.1608
Mercury	62594-05-04 17:46 G	24583173.15	24583173.24	24583173.33	0.2685	0.1633
Venus	62602-05-31 17:02 G	24586121.08	24586121.21	24586121.33	0.2671	0.1629

Mercury	62607-05-08 12:43 G	24587923.92	24587924.03	24587924.15	0.2684	0.0402
Mercury	62609-11-07 06:29 G	24588837.67	24588837.77	24588837.87	0.2647	0.1903
Venus	62610-05-29 07:26 G	24589040.69	24589040.81	24589040.92	0.2672	0.1851
Mercury	62620-05-10 07:41 G	24592674.71	24592674.82	24592674.93	0.2683	0.0807
Mercury	62622-11-10 09:36 G	24593588.75	24593588.90	24593589.04	0.2649	0.0040
Mercury	62627-05-04 03:36 G	24595224.64	24595224.65	24595224.66	0.2686	0.2656
Mercury	62633-05-13 02:24 G	24597425.52	24597425.60	24597425.67	0.2682	0.1984
Mercury	62635-11-13 13:12 G	24598339.95	24598340.05	24598340.15	0.2650	0.1975
Mercury	62640-05-05 22:48 G	24599975.35	24599975.45	24599975.55	0.2685	0.1399
Mercury	62653-05-08 17:46 G	24604726.12	24604726.24	24604726.35	0.2684	0.0176
Mercury	62655-11-08 12:29 G	24605639.91	24605640.02	24605640.14	0.2647	0.1558
Mercury	62666-05-11 12:29 G	24609476.92	24609477.02	24609477.13	0.2683	0.1030
Mercury	62668-11-10 15:36 G	24610391.01	24610391.15	24610391.30	0.2649	0.0351
Mercury	62673-05-04 08:38 G	24612026.81	24612026.86	24612026.91	0.2686	0.2417
Mercury	62679-05-14 07:12 G	24614227.74	24614227.80	24614227.87	0.2681	0.2198
Mercury	62681-11-13 19:12 G	24615142.23	24615142.30	24615142.37	0.2650	0.2333
Mercury	62686-05-07 03:50 G	24616777.55	24616777.66	24616777.76	0.2685	0.1171
Mercury	62699-05-09 22:48 G	24621528.33	24621528.45	24621528.56	0.2684	0.0112
Mercury	62701-11-09 18:43 G	24622442.15	24622442.28	24622442.41	0.2648	0.1213
Venus	62707-12-03 09:22 G	24624656.73	24624656.89	24624657.05	0.2660	0.0203
Mercury	62712-05-12 17:31 G	24626279.13	24626279.23	24626279.33	0.2683	0.1251
Mercury	62714-11-12 21:50 G	24627193.27	24627193.41	24627193.55	0.2649	0.0707
Mercury	62719-05-06 13:41 G	24628829.00	24628829.07	24628829.13	0.2686	0.2180
Mercury	62725-05-15 12:14 G	24631029.96	24631030.01	24631030.05	0.2681	0.2418
Mercury	62732-05-08 08:38 G	24633579.76	24633579.86	24633579.97	0.2685	0.0938
Mercury	62745-05-11 03:36 G	24638330.54	24638330.65	24638330.77	0.2684	0.0293
Mercury	62747-11-11 00:43 G	24639244.39	24639244.53	24639244.67	0.2648	0.0863
Mercury	62758-05-13 22:34 G	24643081.34	24643081.44	24643081.53	0.2682	0.1475
Mercury	62760-11-13 03:50 G	24643995.53	24643995.66	24643995.80	0.2649	0.1067
Mercury	62765-05-06 18:43 G	24645631.20	24645631.28	24645631.36	0.2686	0.1944

Mercury	62771-05-16 17:02 G	24647832.19	24647832.21	24647832.23	0.2681	0.2630
Mercury	62778-05-09 13:41 G	24650381.96	24650382.07	24650382.18	0.2685	0.0704
Mercury	62780-11-08 03:50 G	24651295.60	24651295.66	24651295.72	0.2646	0.2383
Mercury	62791-05-12 08:38 G	24655132.75	24655132.86	24655132.97	0.2684	0.0512
Mercury	62793-11-11 06:43 G	24656046.64	24656046.78	24656046.93	0.2648	0.0520
Mercury	62804-05-14 03:22 G	24659883.56	24659883.64	24659883.73	0.2682	0.1695
Mercury	62806-11-14 10:05 G	24660797.80	24660797.92	24660798.05	0.2649	0.1430
Mercury	62811-05-07 23:46 G	24662433.40	24662433.49	24662433.57	0.2686	0.1710
Mercury	62824-05-09 18:43 G	24667184.17	24667184.28	24667184.39	0.2685	0.0471
Mercury	62826-11-09 10:05 G	24668097.83	24668097.92	24668098.01	0.2647	0.2044
Mercury	62837-05-12 13:41 G	24671934.96	24671935.07	24671935.18	0.2683	0.0738
Mercury	62839-11-12 12:58 G	24672848.89	24672849.04	24672849.18	0.2648	0.0180
Venus	62845-06-01 17:31 G	24674877.11	24674877.23	24674877.36	0.2672	0.1676
Mercury	62850-05-15 08:24 G	24676685.77	24676685.85	24676685.93	0.2682	0.1914
Mercury	62852-11-14 16:19 G	24677600.07	24677600.18	24677600.29	0.2649	0.1783
Venus	62853-05-30 07:55 G	24677796.72	24677796.83	24677796.95	0.2673	0.1810
Mercury	62857-05-08 04:34 G	24679235.60	24679235.69	24679235.79	0.2685	0.1478
Mercury	62870-05-10 23:46 G	24683986.37	24683986.49	24683986.60	0.2684	0.0244
Mercury	62872-11-09 16:05 G	24684900.06	24684900.17	24684900.28	0.2647	0.1710
Mercury	62883-05-13 18:43 G	24688737.17	24688737.28	24688737.38	0.2683	0.0965
Mercury	62885-11-12 18:58 G	24689651.15	24689651.29	24689651.44	0.2648	0.0187
Mercury	62890-05-06 14:24 G	24691287.06	24691287.10	24691287.14	0.2687	0.2498
Mercury	62896-05-15 13:12 G	24693487.99	24693488.05	24693488.12	0.2682	0.2135
Mercury	62898-11-15 22:34 G	24694402.35	24694402.44	24694402.52	0.2650	0.2147
Mercury	62903-05-10 09:36 G	24696037.80	24696037.90	24696038.01	0.2685	0.1241
Mercury	62916-05-12 04:48 G	24700788.58	24700788.70	24700788.81	0.2684	0.0079
Mercury	62918-11-11 22:05 G	24701702.29	24701702.42	24701702.54	0.2647	0.1367
Mercury	62929-05-14 23:31 G	24705539.38	24705539.48	24705539.58	0.2683	0.1185
Mercury	62931-11-15 01:12 G	24706453.40	24706453.55	24706453.69	0.2648	0.0536
Mercury	62936-05-07 19:26 G	24708089.25	24708089.31	24708089.37	0.2686	0.2258

Mercury	62942-05-17 18:14 G	24710290.21	24710290.26	24710290.31	0.2682	0.2350
Mercury	62944-11-17 04:34 G	24711204.65	24711204.69	24711204.74	0.2650	0.2511
Mercury	62949-05-10 14:38 G	24712840.00	24712840.11	24712840.22	0.2685	0.1009
Venus	62950-12-04 11:31 G	24713412.82	24713412.98	24713413.14	0.2659	0.0079
Mercury	62962-05-13 09:36 G	24717590.79	24717590.90	24717591.02	0.2684	0.0234
Mercury	62964-11-12 04:05 G	24718504.53	24718504.67	24718504.80	0.2647	0.1031
Mercury	62975-05-16 04:34 G	24722341.59	24722341.69	24722341.78	0.2683	0.1406
Mercury	62977-11-15 07:12 G	24723255.66	24723255.80	24723255.94	0.2649	0.0884
Mercury	62982-05-09 00:29 G	24724891.45	24724891.52	24724891.60	0.2686	0.2024
Mercury	62988-05-17 23:02 G	24727092.44	24727092.46	24727092.49	0.2682	0.2571
Mercury	62995-05-11 19:41 G	24729642.21	24729642.32	24729642.43	0.2685	0.0775
Mercury	62997-11-10 07:26 G	24730555.77	24730555.81	24730555.85	0.2646	0.2519

64TH MILLENNIUM CE

This is a list of transits visible from Earth in the 64th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	63008-05-14 14:38 G		24734393.00	24734393.11	24734393.22	0.2684	0.0440	
Mercury	63010-11-14 10:05 G		24735306.78	24735306.92	24735307.06	0.2647	0.0685	
Mercury	63021-05-17 09:22 G		24739143.80	24739143.89	24739143.98	0.2683	0.1627	
Mercury	63023-11-17 13:26 G		24740057.93	24740058.06	24740058.19	0.2649	0.1240	
Mercury	63028-05-10 05:31 G		24741693.65	24741693.73	24741693.82	0.2686	0.1785	
Mercury	63041-05-13 00:43 G		24746444.42	24746444.53	24746444.64	0.2685	0.0547	
Mercury	63043-11-12 13:26 G		24747357.98	24747358.06	24747358.14	0.2646	0.2191	

Mercury	63054-05-15 19:41 G	24751195.21	24751195.32	24751195.43	0.2684	0.0668
Mercury	63056-11-14 16:19 G	24752109.03	24752109.18	24752109.32	0.2648	0.0332
Mercury	63067-05-18 14:24 G	24755946.02	24755946.10	24755946.18	0.2683	0.1847
Mercury	63069-11-17 19:26 G	24756860.20	24756860.31	24756860.43	0.2649	0.1601
Mercury	63074-05-11 10:34 G	24758495.85	24758495.94	24758496.04	0.2686	0.1548
Mercury	63087-05-14 05:46 G	24763246.62	24763246.74	24763246.85	0.2685	0.0322
Venus	63088-06-03 18:00 G	24763633.13	24763633.25	24763633.38	0.2673	0.1691
Mercury	63089-11-12 19:26 G	24764160.21	24764160.31	24764160.41	0.2646	0.1851
Venus	63096-06-01 08:10 G	24766552.73	24766552.84	24766552.96	0.2674	0.1803
Mercury	63100-05-17 00:29 G	24767997.42	24767997.52	24767997.63	0.2684	0.0892
Mercury	63102-11-16 22:19 G	24768911.29	24768911.43	24768911.58	0.2648	0.0040
Mercury	63107-05-10 20:24 G	24770547.32	24770547.35	24770547.38	0.2687	0.2572
Mercury	63113-05-19 19:12 G	24772748.23	24772748.30	24772748.38	0.2682	0.2069
Mercury	63115-11-20 01:41 G	24773662.47	24773662.57	24773662.67	0.2649	0.1960
Mercury	63120-05-12 15:36 G	24775298.05	24775298.15	24775298.25	0.2686	0.1315
Mercury	63133-05-15 10:34 G	24780048.83	24780048.94	24780049.06	0.2685	0.0130
Mercury	63135-11-15 01:26 G	24780962.44	24780962.56	24780962.68	0.2646	0.1521
Mercury	63146-05-18 05:31 G	24784799.63	24784799.73	24784799.83	0.2684	0.1116
Mercury	63148-11-17 04:34 G	24785713.54	24785713.69	24785713.83	0.2648	0.0373
Mercury	63153-05-11 01:26 G	24787349.50	24787349.56	24787349.61	0.2687	0.2340
Mercury	63159-05-21 00:14 G	24789550.45	24789550.51	24789550.57	0.2682	0.2286
Mercury	63161-11-20 07:55 G	24790464.76	24790464.83	24790464.90	0.2649	0.2321
Mercury	63166-05-13 20:38 G	24792100.25	24792100.36	24792100.47	0.2686	0.1080
Mercury	63179-05-16 15:36 G	24796851.04	24796851.15	24796851.27	0.2685	0.0148
Mercury	63181-11-15 07:41 G	24797764.69	24797764.82	24797764.95	0.2647	0.1179
Mercury	63192-05-18 10:34 G	24801601.84	24801601.94	24801602.04	0.2683	0.1339
Venus	63193-12-06 13:12 G	24802168.89	24802169.05	24802169.21	0.2658	0.0064
Mercury	63194-11-18 10:34 G	24802515.80	24802515.94	24802516.08	0.2648	0.0711
Mercury	63199-05-12 06:29 G	24804151.70	24804151.77	24804151.84	0.2687	0.2097
Mercury	63205-05-21 05:17 G	24806352.68	24806352.72	24806352.76	0.2682	0.2505

Mercury	63212-05-14 01:41 G	24808902.46	24808902.57	24808902.68	0.2685	0.0855
Mercury	63225-05-16 20:38 G	24813653.24	24813653.36	24813653.47	0.2684	0.0371
Mercury	63227-11-16 13:41 G	24814566.93	24814567.07	24814567.21	0.2647	0.0839
Mercury	63238-05-19 15:36 G	24818404.05	24818404.15	24818404.24	0.2683	0.1565
Mercury	63240-11-18 16:48 G	24819318.06	24819318.20	24819318.33	0.2648	0.1069
Mercury	63245-05-12 11:31 G	24820953.90	24820953.98	24820954.06	0.2687	0.1862
Mercury	63258-05-15 06:43 G	24825704.66	24825704.78	24825704.89	0.2685	0.0625
Mercury	63260-11-13 17:02 G	24826618.14	24826618.21	24826618.27	0.2646	0.2331
Mercury	63271-05-18 01:41 G	24830455.45	24830455.57	24830455.68	0.2684	0.0603
Mercury	63273-11-16 19:41 G	24831369.18	24831369.32	24831369.46	0.2647	0.0497
Mercury	63284-05-19 20:24 G	24835206.27	24835206.35	24835206.44	0.2683	0.1782
Mercury	63286-11-19 22:48 G	24836120.32	24836120.45	24836120.57	0.2648	0.1415
Mercury	63291-05-13 16:34 G	24837756.09	24837756.19	24837756.28	0.2686	0.1629
Mercury	63304-05-16 11:31 G	24842506.87	24842506.98	24842507.10	0.2685	0.0395
Mercury	63306-11-15 23:02 G	24843420.37	24843420.46	24843420.55	0.2646	0.2002
Mercury	63317-05-19 06:29 G	24847257.67	24847257.77	24847257.88	0.2684	0.0829
Mercury	63319-11-19 01:41 G	24848171.42	24848171.57	24848171.72	0.2647	0.0154
Mercury	63324-05-12 02:10 G	24849807.58	24849807.59	24849807.60	0.2688	0.2656
Mercury	63330-05-22 01:26 G	24852008.48	24852008.56	24852008.63	0.2683	0.2002
Venus	63331-06-06 18:29 G	24852389.15	24852389.27	24852389.39	0.2674	0.1727
Mercury	63332-11-21 04:48 G	24852922.60	24852922.70	24852922.81	0.2649	0.1775
Mercury	63337-05-14 21:22 G	24854558.30	24854558.39	24854558.49	0.2686	0.1397
Venus	63339-06-04 08:38 G	24855308.75	24855308.86	24855308.98	0.2675	0.1784
Mercury	63350-05-17 16:34 G	24859309.08	24859309.19	24859309.31	0.2685	0.0158
Mercury	63352-11-16 05:02 G	24860222.60	24860222.71	24860222.82	0.2646	0.1658
Mercury	63363-05-20 11:31 G	24864059.88	24864059.98	24864060.09	0.2684	0.1045
Mercury	63365-11-19 07:55 G	24864973.68	24864973.83	24864973.97	0.2647	0.0206
Mercury	63370-05-13 07:12 G	24866609.75	24866609.80	24866609.85	0.2687	0.2413
Mercury	63376-05-22 06:14 G	24868810.70	24868810.76	24868810.83	0.2683	0.2224
Mercury	63378-11-22 11:02 G	24869724.87	24869724.96	24869725.05	0.2649	0.2127

Mercury	63383-05-16 02:24 G	24871360.50	24871360.60	24871360.71	0.2686	0.1160
Mercury	63396-05-17 21:36 G	24876111.28	24876111.40	24876111.51	0.2685	0.0078
Mercury	63398-11-17 11:02 G	24877024.84	24877024.96	24877025.09	0.2646	0.1327
Mercury	63409-05-21 16:34 G	24880862.09	24880862.19	24880862.29	0.2684	0.1271
Mercury	63411-11-21 13:55 G	24881775.94	24881776.08	24881776.23	0.2648	0.0551
Mercury	63416-05-14 12:15 G	24883411.95	24883412.01	24883412.08	0.2687	0.2177
Mercury	63422-05-24 11:17 G	24885612.92	24885612.97	24885613.01	0.2683	0.2439
Mercury	63424-11-23 17:17 G	24886527.17	24886527.22	24886527.27	0.2649	0.2493
Mercury	63429-05-17 07:27 G	24888162.70	24888162.81	24888162.92	0.2686	0.0924
Venus	63436-12-08 15:22 G	24890924.98	24890925.14	24890925.30	0.2657	0.0181
Mercury	63442-05-20 02:39 G	24892913.49	24892913.61	24892913.72	0.2685	0.0305
Mercury	63444-11-18 17:03 G	24893827.08	24893827.21	24893827.35	0.2646	0.0988
Mercury	63455-05-22 21:22 G	24897664.30	24897664.39	24897664.49	0.2684	0.1497
Mercury	63457-11-21 19:55 G	24898578.20	24898578.33	24898578.47	0.2648	0.0893
Mercury	63462-05-15 17:17 G	24900214.14	24900214.22	24900214.30	0.2687	0.1938
Mercury	63468-05-24 16:05 G	24902415.16	24902415.17	24902415.19	0.2682	0.2658
Mercury	63475-05-18 12:29 G	24904964.91	24904965.02	24904965.13	0.2686	0.0692
Mercury	63477-11-16 20:39 G	24905878.31	24905878.36	24905878.41	0.2645	0.2467
Mercury	63488-05-20 07:41 G	24909715.70	24909715.82	24909715.93	0.2685	0.0534
Mercury	63490-11-19 23:03 G	24910629.32	24910629.46	24910629.60	0.2647	0.0654
Mercury	63501-05-24 02:24 G	24914466.52	24914466.60	24914466.69	0.2684	0.1719
Mercury	63503-11-24 02:10 G	24915380.46	24915380.59	24915380.72	0.2648	0.1248
Mercury	63508-05-16 22:19 G	24917016.34	24917016.43	24917016.52	0.2687	0.1706
Mercury	63521-05-19 17:31 G	24921767.12	24921767.23	24921767.34	0.2686	0.0458
Mercury	63523-11-19 02:39 G	24922680.53	24922680.61	24922680.69	0.2645	0.2134
Mercury	63534-05-22 12:29 G	24926517.91	24926518.02	24926518.13	0.2685	0.0759
Mercury	63536-11-21 05:17 G	24927431.57	24927431.72	24927431.86	0.2647	0.0315
Mercury	63547-05-25 07:27 G	24931268.73	24931268.81	24931268.89	0.2683	0.1937
Mercury	63549-11-24 08:10 G	24932182.73	24932182.84	24932182.96	0.2648	0.1595
Mercury	63554-05-18 03:22 G	24933818.54	24933818.64	24933818.74	0.2687	0.1466

Mercury	63567-05-20 22:34 G	24938569.32	24938569.44	24938569.55	0.2686	0.0234
Mercury	63569-11-19 08:39 G	24939482.75	24939482.86	24939482.96	0.2646	0.1811
Venus	63574-06-08 18:58 G	24941145.17	24941145.29	24941145.41	0.2675	0.1752
Mercury	63580-05-22 17:31 G	24943320.12	24943320.23	24943320.34	0.2684	0.0979
Venus	63582-06-06 09:07 G	24944064.76	24944064.88	24944065.00	0.2676	0.1754
Mercury	63582-11-22 11:17 G	24944233.82	24944233.97	24944234.11	0.2647	0.0040
Mercury	63587-05-16 12:58 G	24945870.00	24945870.04	24945870.08	0.2688	0.2497
Mercury	63593-05-25 12:15 G	24948070.95	24948071.01	24948071.08	0.2683	0.2160
Mercury	63595-11-25 14:24 G	24948985.00	24948985.10	24948985.20	0.2648	0.1952
Mercury	63600-05-18 08:24 G	24950620.75	24950620.85	24950620.95	0.2687	0.1232
Mercury	63613-05-21 03:36 G	24955371.53	24955371.65	24955371.76	0.2685	0.0041
Mercury	63615-11-20 14:39 G	24956284.99	24956285.11	24956285.23	0.2646	0.1469
Mercury	63626-05-23 22:34 G	24960122.34	24960122.44	24960122.54	0.2684	0.1204
Mercury	63628-11-22 17:17 G	24961036.08	24961036.22	24961036.37	0.2647	0.0375
Mercury	63633-05-16 18:00 G	24962672.19	24962672.25	24962672.31	0.2688	0.2256
Mercury	63639-05-26 17:17 G	24964873.17	24964873.22	24964873.27	0.2683	0.2374
Mercury	63641-11-25 20:24 G	24965787.28	24965787.35	24965787.42	0.2648	0.2303
Mercury	63646-05-19 13:27 G	24967422.95	24967423.06	24967423.17	0.2687	0.0999
Mercury	63659-05-22 08:39 G	24972173.74	24972173.86	24972173.97	0.2685	0.0244
Mercury	63661-11-20 20:39 G	24973087.23	24973087.36	24973087.49	0.2646	0.1139
Mercury	63672-05-24 03:36 G	24976924.55	24976924.65	24976924.74	0.2684	0.1434
Mercury	63674-11-23 23:31 G	24977838.34	24977838.48	24977838.62	0.2647	0.0731
Mercury	63679-05-17 23:03 G	24979474.39	24979474.46	24979474.54	0.2688	0.2019
Venus	63679-12-10 17:31 G	24979681.07	24979681.23	24979681.39	0.2656	0.0317
Mercury	63685-05-26 22:19 G	24981675.40	24981675.43	24981675.45	0.2683	0.2594
Mercury	63692-05-19 18:29 G	24984225.16	24984225.27	24984225.38	0.2686	0.0764
Mercury	63694-11-19 00:15 G	24985138.49	24985138.51	24985138.54	0.2645	0.2593
Mercury	63705-05-23 13:27 G	24988975.95	24988976.06	24988976.18	0.2685	0.0464
Mercury	63707-11-23 02:39 G	24989889.47	24989889.61	24989889.75	0.2646	0.0795
Mercury	63718-05-26 08:24 G	24993726.76	24993726.85	24993726.94	0.2684	0.1647

Mercury	63720-11-25 05:31 G	24994640.60	24994640.73	24994640.86	0.2647	0.1073
Mercury	63725-05-19 04:05 G	24996276.59	24996276.67	24996276.76	0.2687	0.1779
Mercury	63738-05-21 23:31 G	25001027.36	25001027.48	25001027.59	0.2686	0.0536
Mercury	63740-11-20 06:15 G	25001940.69	25001940.76	25001940.83	0.2645	0.2270
Mercury	63751-05-24 18:29 G	25005778.16	25005778.27	25005778.38	0.2685	0.0684
Mercury	63753-11-23 08:39 G	25006691.72	25006691.86	25006692.01	0.2646	0.0463
Mercury	63764-05-26 13:27 G	25010528.98	25010529.06	25010529.14	0.2684	0.1873
Mercury	63766-11-26 11:46 G	25011442.86	25011442.99	25011443.11	0.2648	0.1431
Mercury	63771-05-20 09:22 G	25013078.79	25013078.89	25013078.98	0.2687	0.1543
Mercury	63784-05-22 04:34 G	25017829.57	25017829.69	25017829.80	0.2686	0.0304
Mercury	63786-11-21 12:15 G	25018742.91	25018743.01	25018743.11	0.2645	0.1938
Mercury	63797-05-24 23:31 G	25022580.37	25022580.48	25022580.59	0.2685	0.0913
Mercury	63799-11-24 14:53 G	25023493.97	25023494.12	25023494.26	0.2646	0.0145
Mercury	63804-05-18 18:58 G	25025130.25	25025130.29	25025130.32	0.2688	0.2575
Mercury	63810-05-28 18:29 G	25027331.20	25027331.27	25027331.34	0.2684	0.2094
Mercury	63812-11-27 17:46 G	25028245.13	25028245.24	25028245.35	0.2648	0.1772
Mercury	63817-05-21 14:10 G	25029880.99	25029881.09	25029881.20	0.2687	0.1308
Venus	63817-06-10 19:27 G	25029901.19	25029901.31	25029901.43	0.2676	0.1773
Venus	63825-06-08 09:22 G	25032820.77	25032820.89	25032821.01	0.2678	0.1752
Mercury	63830-05-24 09:22 G	25034631.78	25034631.89	25034632.01	0.2686	0.0119
Mercury	63832-11-22 18:15 G	25035545.15	25035545.26	25035545.37	0.2645	0.1614
Mercury	63843-05-27 04:34 G	25039382.58	25039382.69	25039382.79	0.2685	0.1141
Mercury	63845-11-25 20:53 G	25040296.22	25040296.37	25040296.51	0.2647	0.0227
Mercury	63850-05-20 00:00 G	25041932.44	25041932.50	25041932.55	0.2688	0.2334
Mercury	63856-05-28 23:17 G	25044133.42	25044133.47	25044133.53	0.2683	0.2317
Mercury	63858-11-28 23:46 G	25045047.41	25045047.49	25045047.58	0.2648	0.2132
Mercury	63863-05-22 19:12 G	25046683.20	25046683.30	25046683.41	0.2687	0.1076
Mercury	63876-05-24 14:24 G	25051433.99	25051434.10	25051434.22	0.2686	0.0165
Mercury	63878-11-24 00:15 G	25052347.38	25052347.51	25052347.64	0.2645	0.1279
Mercury	63889-05-27 09:22 G	25056184.80	25056184.89	25056184.99	0.2685	0.1363

Mercury	63891-11-27 02:53 G	25057098.48	25057098.62	25057098.76	0.2647	0.0562
Mercury	63896-05-20 05:03 G	25058734.64	25058734.71	25058734.78	0.2688	0.2094
Mercury	63902-05-31 04:19 G	25060935.65	25060935.68	25060935.72	0.2683	0.2533
Mercury	63904-11-30 06:00 G	25061849.70	25061849.75	25061849.80	0.2648	0.2477
Mercury	63909-05-24 00:15 G	25063485.40	25063485.51	25063485.62	0.2687	0.0838
Mercury	63922-05-26 19:27 G	25068236.20	25068236.31	25068236.42	0.2686	0.0387
Venus	63922-12-13 19:41 G	25068437.17	25068437.32	25068437.48	0.2655	0.0481
Mercury	63924-11-25 06:15 G	25069149.62	25069149.76	25069149.89	0.2646	0.0948
Mercury	63935-05-29 14:24 G	25072987.01	25072987.10	25072987.19	0.2684	0.1587
Mercury	63937-11-28 08:53 G	25073900.73	25073900.87	25073901.01	0.2647	0.0909
Mercury	63942-05-22 10:05 G	25075536.83	25075536.92	25075537.00	0.2688	0.1855
Mercury	63955-05-25 05:17 G	25080287.61	25080287.72	25080287.84	0.2687	0.0606
Mercury	63957-11-23 10:05 G	25081200.86	25081200.92	25081200.97	0.2644	0.2396
Mercury	63968-05-27 00:29 G	25085038.41	25085038.52	25085038.63	0.2685	0.0618
Mercury	63970-11-26 12:15 G	25085951.87	25085952.01	25085952.15	0.2646	0.0609
Mercury	63981-05-29 19:27 G	25089789.23	25089789.31	25089789.39	0.2684	0.1806
Mercury	63983-11-29 14:53 G	25090702.99	25090703.12	25090703.25	0.2647	0.1251
Mercury	63988-05-22 15:07 G	25092339.04	25092339.13	25092339.22	0.2688	0.1618

65TH MILLENNIUM CE

This is a list of transits visible from Earth in the 65th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	64001-05-25 10:19 G	25097089.82	25097089.93	25097090.05	0.2687	0.0373		

Mercury	64003-11-24 15:51 G	25098003.08	25098003.16	25098003.25	0.2644	0.2073
Mercury	64014-05-28 05:31 G	25101840.62	25101840.73	25101840.84	0.2685	0.0845
Mercury	64016-11-26 18:15 G	25102754.12	25102754.26	25102754.41	0.2646	0.0276
Mercury	64021-05-21 00:43 G	25104390.51	25104390.53	25104390.54	0.2689	0.2651
Mercury	64027-05-31 00:29 G	25106591.44	25106591.52	25106591.59	0.2684	0.2032
Mercury	64029-11-29 21:07 G	25107505.27	25107505.38	25107505.50	0.2647	0.1609
Mercury	64034-05-23 20:10 G	25109141.24	25109141.34	25109141.44	0.2688	0.1382
Mercury	64047-05-26 15:22 G	25113892.02	25113892.14	25113892.26	0.2686	0.0139
Mercury	64049-11-24 21:51 G	25114805.31	25114805.41	25114805.52	0.2645	0.1746
Mercury	64060-05-28 10:19 G	25118642.83	25118642.93	25118643.04	0.2685	0.1076
Venus	64060-06-11 19:55 G	25118657.21	25118657.33	25118657.44	0.2677	0.1814
Mercury	64062-11-28 00:15 G	25119556.37	25119556.51	25119556.66	0.2646	0.0087
Mercury	64067-05-22 05:46 G	25121192.69	25121192.74	25121192.79	0.2689	0.2410
Venus	64068-06-09 09:51 G	25121576.79	25121576.91	25121577.03	0.2678	0.1714
Mercury	64073-05-31 05:17 G	25123393.66	25123393.72	25123393.78	0.2684	0.2248
Mercury	64075-12-01 03:07 G	25124307.54	25124307.63	25124307.73	0.2647	0.1954
Mercury	64080-05-24 01:12 G	25125943.44	25125943.55	25125943.65	0.2687	0.1145
Mercury	64093-05-26 20:24 G	25130694.23	25130694.35	25130694.46	0.2686	0.0093
Mercury	64095-11-26 03:51 G	25131607.54	25131607.66	25131607.78	0.2645	0.1418
Mercury	64106-05-30 15:22 G	25135445.04	25135445.14	25135445.24	0.2685	0.1299
Mercury	64108-11-29 06:29 G	25136358.62	25136358.77	25136358.91	0.2646	0.0415
Mercury	64113-05-23 10:48 G	25137994.88	25137994.95	25137995.02	0.2688	0.2171
Mercury	64119-06-02 10:19 G	25140195.89	25140195.93	25140195.97	0.2684	0.2470
Mercury	64121-12-02 09:22 G	25141109.82	25141109.89	25141109.96	0.2648	0.2311
Mercury	64126-05-26 06:15 G	25142745.65	25142745.76	25142745.87	0.2687	0.0912
Mercury	64139-05-29 01:27 G	25147496.44	25147496.56	25147496.67	0.2686	0.0323
Mercury	64141-11-27 09:51 G	25148409.78	25148409.91	25148410.04	0.2645	0.1086
Mercury	64152-05-30 20:24 G	25152247.26	25152247.35	25152247.45	0.2685	0.1521
Mercury	64154-11-30 12:29 G	25153160.88	25153161.02	25153161.16	0.2646	0.0750
Mercury	64159-05-24 15:51 G	25154797.08	25154797.16	25154797.24	0.2688	0.1932

Venus	64165-12-14 22:05 G	25157193.27	25157193.42	25157193.58	0.2654	0.0630
Mercury	64172-05-26 11:17 G	25159547.85	25159547.97	25159548.08	0.2687	0.0682
Venus	64173-12-12 14:10 G	25160113.06	25160113.09	25160113.13	0.2653	0.2564
Mercury	64174-11-25 13:41 G	25160461.03	25160461.07	25160461.11	0.2644	0.2528
Mercury	64185-05-29 06:29 G	25164298.65	25164298.77	25164298.88	0.2686	0.0552
Mercury	64187-11-28 15:51 G	25165212.02	25165212.16	25165212.30	0.2645	0.0760
Mercury	64198-06-01 01:27 G	25169049.47	25169049.56	25169049.65	0.2685	0.1745
Mercury	64200-12-01 18:29 G	25169963.14	25169963.27	25169963.40	0.2647	0.1094
Mercury	64205-05-25 20:53 G	25171599.28	25171599.37	25171599.46	0.2688	0.1695
Mercury	64218-05-28 16:19 G	25176350.06	25176350.18	25176350.29	0.2687	0.0447
Mercury	64220-11-26 19:41 G	25177263.24	25177263.32	25177263.40	0.2644	0.2203
Mercury	64231-05-31 11:17 G	25181100.86	25181100.97	25181101.09	0.2686	0.0784
Mercury	64233-11-29 21:51 G	25182014.27	25182014.41	25182014.55	0.2645	0.0422
Mercury	64244-06-02 06:15 G	25185851.69	25185851.76	25185851.84	0.2685	0.1966
Mercury	64246-12-03 00:29 G	25186765.40	25186765.52	25186765.64	0.2647	0.1434
Mercury	64251-05-27 01:55 G	25188401.48	25188401.58	25188401.68	0.2688	0.1458
Mercury	64264-05-28 21:22 G	25193152.27	25193152.39	25193152.50	0.2687	0.0231
Mercury	64266-11-28 01:41 G	25194065.47	25194065.57	25194065.67	0.2644	0.1879
Mercury	64277-05-31 16:19 G	25197903.08	25197903.18	25197903.29	0.2686	0.1004
Mercury	64279-12-01 03:51 G	25198816.52	25198816.66	25198816.81	0.2646	0.0093
Mercury	64284-05-24 11:31 G	25200452.94	25200452.98	25200453.02	0.2689	0.2492
Mercury	64290-06-03 11:17 G	25202653.91	25202653.97	25202654.04	0.2684	0.2188
Mercury	64292-12-03 06:43 G	25203567.67	25203567.78	25203567.88	0.2647	0.1785
Mercury	64297-05-27 06:58 G	25205203.69	25205203.79	25205203.89	0.2688	0.1219
Venus	64303-06-15 19:55 G	25207413.22	25207413.33	25207413.45	0.2678	0.1815
Mercury	64310-05-31 02:24 G	25209954.48	25209954.60	25209954.71	0.2687	0.0102
Venus	64311-06-13 09:51 G	25210332.79	25210332.91	25210333.04	0.2680	0.1722
Mercury	64312-11-29 07:41 G	25210867.70	25210867.82	25210867.93	0.2644	0.1550
Mercury	64323-06-02 21:22 G	25214705.29	25214705.39	25214705.49	0.2685	0.1228
Mercury	64325-12-02 09:51 G	25215618.77	25215618.91	25215619.06	0.2646	0.0266

Mercury	64330-05-26 16:34 G	25217255.13	25217255.19	25217255.25	0.2689	0.2248
Mercury	64336-06-04 16:19 G	25219456.13	25219456.18	25219456.23	0.2684	0.2404
Mercury	64338-12-05 12:43 G	25220369.95	25220370.03	25220370.12	0.2647	0.2132
Mercury	64343-05-29 12:00 G	25222005.89	25222006.00	25222006.11	0.2688	0.0984
Mercury	64356-05-31 07:12 G	25226756.69	25226756.80	25226756.92	0.2687	0.0266
Mercury	64358-11-30 13:27 G	25227669.94	25227670.06	25227670.19	0.2645	0.1225
Mercury	64369-06-03 02:24 G	25231507.50	25231507.60	25231507.69	0.2685	0.1454
Mercury	64371-12-03 16:05 G	25232421.02	25232421.17	25232421.31	0.2646	0.0600
Mercury	64376-05-26 21:36 G	25234057.32	25234057.40	25234057.48	0.2689	0.2010
Mercury	64382-06-05 21:22 G	25236258.37	25236258.39	25236258.41	0.2684	0.2627
Mercury	64384-12-05 18:58 G	25237172.24	25237172.29	25237172.33	0.2647	0.2488
Mercury	64389-05-29 17:03 G	25238808.10	25238808.21	25238808.32	0.2688	0.0750
Mercury	64402-06-01 12:15 G	25243558.90	25243559.01	25243559.13	0.2686	0.0484
Mercury	64404-11-30 19:27 G	25244472.18	25244472.31	25244472.45	0.2645	0.0896
Venus	64408-12-17 00:29 G	25245949.37	25245949.52	25245949.67	0.2653	0.0790
Mercury	64415-06-04 07:27 G	25248309.72	25248309.81	25248309.89	0.2685	0.1680
Venus	64416-12-14 16:34 G	25248869.13	25248869.19	25248869.26	0.2652	0.2395
Mercury	64417-12-03 22:05 G	25249223.28	25249223.42	25249223.55	0.2646	0.0937
Mercury	64422-05-28 02:39 G	25250859.53	25250859.61	25250859.70	0.2689	0.1772
Mercury	64435-05-30 22:05 G	25255610.31	25255610.42	25255610.54	0.2687	0.0516
Mercury	64437-11-28 23:17 G	25256523.41	25256523.47	25256523.54	0.2643	0.2332
Mercury	64448-06-01 17:17 G	25260361.11	25260361.22	25260361.33	0.2686	0.0709
Mercury	64450-12-02 01:27 G	25261274.42	25261274.56	25261274.70	0.2645	0.0564
Mercury	64461-06-04 12:15 G	25265111.94	25265112.01	25265112.09	0.2685	0.1906
Mercury	64463-12-05 04:05 G	25266025.54	25266025.67	25266025.80	0.2646	0.1276
Mercury	64468-05-28 07:41 G	25267661.73	25267661.82	25267661.92	0.2688	0.1533
Mercury	64481-05-31 03:07 G	25272412.51	25272412.63	25272412.75	0.2687	0.0283
Mercury	64483-11-30 05:17 G	25273325.63	25273325.72	25273325.81	0.2644	0.2007
Mercury	64494-06-02 22:19 G	25277163.32	25277163.43	25277163.54	0.2686	0.0935
Mercury	64496-12-02 07:27 G	25278076.67	25278076.81	25278076.96	0.2645	0.0237

Mercury	64501-05-27 17:17 G	25279713.19	25279713.22	25279713.25	0.2689	0.2570
Mercury	64507-06-06 17:17 G	25281914.15	25281914.22	25281914.29	0.2685	0.2124
Mercury	64509-12-06 10:05 G	25282827.80	25282827.92	25282828.03	0.2646	0.1615
Mercury	64514-05-30 12:43 G	25284463.93	25284464.03	25284464.14	0.2688	0.1298
Mercury	64527-06-02 08:10 G	25289214.72	25289214.84	25289214.96	0.2687	0.0055
Mercury	64529-12-01 11:17 G	25290127.86	25290127.97	25290128.08	0.2644	0.1688
Mercury	64540-06-04 03:22 G	25293965.53	25293965.64	25293965.74	0.2686	0.1163
Mercury	64542-12-04 13:27 G	25294878.92	25294879.06	25294879.20	0.2645	0.0099
Venus	64546-06-16 20:24 G	25296169.23	25296169.35	25296169.46	0.2679	0.1847
Mercury	64547-05-28 22:19 G	25296515.37	25296515.43	25296515.49	0.2689	0.2332
Mercury	64553-06-06 22:19 G	25298716.38	25298716.43	25298716.48	0.2685	0.2344
Venus	64554-06-14 10:19 G	25299088.81	25299088.93	25299089.05	0.2681	0.1703
Mercury	64555-12-07 16:05 G	25299630.08	25299630.17	25299630.27	0.2647	0.1960
Mercury	64560-05-30 17:46 G	25301266.14	25301266.24	25301266.35	0.2688	0.1063
Mercury	64573-06-02 13:12 G	25306016.93	25306017.05	25306017.16	0.2687	0.0184
Mercury	64575-12-02 17:17 G	25306930.10	25306930.22	25306930.34	0.2644	0.1358
Mercury	64586-06-05 08:24 G	25310767.75	25310767.85	25310767.94	0.2686	0.1391
Mercury	64588-12-04 19:27 G	25311681.17	25311681.31	25311681.45	0.2645	0.0434
Mercury	64593-05-29 03:22 G	25313317.57	25313317.64	25313317.71	0.2689	0.2088
Mercury	64599-06-08 03:22 G	25315518.61	25315518.64	25315518.67	0.2685	0.2563
Mercury	64601-12-08 22:05 G	25316432.35	25316432.42	25316432.49	0.2647	0.2302
Mercury	64606-06-01 22:48 G	25318068.34	25318068.45	25318068.56	0.2688	0.0828
Mercury	64619-06-04 18:15 G	25322819.14	25322819.26	25322819.37	0.2687	0.0415
Mercury	64621-12-03 23:17 G	25323732.34	25323732.47	25323732.60	0.2644	0.1031
Mercury	64632-06-06 13:12 G	25327569.96	25327570.05	25327570.15	0.2686	0.1615
Mercury	64634-12-07 01:27 G	25328483.43	25328483.56	25328483.70	0.2646	0.0779
Mercury	64639-05-31 08:24 G	25330119.77	25330119.85	25330119.94	0.2689	0.1850
Venus	64651-12-20 02:39 G	25334705.47	25334705.61	25334705.76	0.2652	0.0952
Mercury	64652-06-02 03:51 G	25334870.55	25334870.66	25334870.78	0.2688	0.0593
Mercury	64654-12-02 03:07 G	25335783.58	25335783.63	25335783.69	0.2643	0.2448

Venus	64659-12-17 19:12 G	25337625.21	25337625.30	25337625.38	0.2651	0.2212
Mercury	64665-06-04 23:17 G	25339621.35	25339621.47	25339621.58	0.2687	0.0643
Mercury	64667-12-05 05:17 G	25340534.58	25340534.72	25340534.85	0.2644	0.0709
Mercury	64678-06-07 18:15 G	25344372.18	25344372.26	25344372.34	0.2686	0.1835
Mercury	64680-12-07 07:27 G	25345285.68	25345285.81	25345285.94	0.2646	0.1115
Mercury	64685-05-31 13:27 G	25346921.97	25346922.06	25346922.16	0.2689	0.1611
Mercury	64698-06-03 08:53 G	25351672.76	25351672.87	25351672.99	0.2688	0.0363
Mercury	64700-12-03 09:07 G	25352585.80	25352585.88	25352585.96	0.2643	0.2134
Mercury	64711-06-07 04:19 G	25356423.57	25356423.68	25356423.79	0.2687	0.0873
Mercury	64713-12-06 11:03 G	25357336.82	25357336.96	25357337.10	0.2645	0.0379
Mercury	64718-05-30 23:03 G	25358973.44	25358973.46	25358973.47	0.2690	0.2655
Mercury	64724-06-08 23:17 G	25361174.40	25361174.47	25361174.54	0.2685	0.2058
Mercury	64726-12-09 13:41 G	25362087.95	25362088.07	25362088.19	0.2646	0.1458
Mercury	64731-06-02 18:29 G	25363724.17	25363724.27	25363724.37	0.2689	0.1376
Mercury	64744-06-04 13:55 G	25368474.97	25368475.08	25368475.20	0.2688	0.0148
Mercury	64746-12-04 15:07 G	25369388.02	25369388.13	25369388.23	0.2643	0.1812
Mercury	64757-06-07 09:07 G	25373225.78	25373225.88	25373225.99	0.2686	0.1100
Mercury	64759-12-07 17:03 G	25374139.07	25374139.21	25374139.36	0.2645	0.0052
Mercury	64764-05-31 04:05 G	25375775.62	25375775.67	25375775.72	0.2690	0.2408
Mercury	64770-06-10 04:19 G	25377976.62	25377976.68	25377976.74	0.2685	0.2280
Mercury	64772-12-09 19:41 G	25378890.21	25378890.32	25378890.42	0.2646	0.1796
Mercury	64777-06-02 23:31 G	25380526.38	25380526.48	25380526.59	0.2689	0.1140
Venus	64789-06-18 20:24 G	25384925.23	25384925.35	25384925.46	0.2680	0.1837
Mercury	64790-06-05 18:58 G	25385277.18	25385277.29	25385277.41	0.2687	0.0119
Mercury	64792-12-04 20:53 G	25386190.25	25386190.37	25386190.49	0.2644	0.1497
Venus	64797-06-16 10:05 G	25387844.80	25387844.92	25387845.04	0.2682	0.1720
Mercury	64803-06-08 14:10 G	25390027.99	25390028.09	25390028.19	0.2686	0.1323
Mercury	64805-12-07 23:03 G	25390941.32	25390941.46	25390941.61	0.2645	0.0290
Mercury	64810-06-01 09:07 G	25392577.81	25392577.88	25392577.95	0.2690	0.2171
Mercury	64816-06-10 09:07 G	25394778.85	25394778.88	25394778.92	0.2685	0.2502

Mercury	64818-12-11 01:41 G	25395692.49	25395692.57	25395692.66	0.2646	0.2141
Mercury	64823-06-04 04:48 G	25397328.59	25397328.70	25397328.81	0.2689	0.0902
Mercury	64836-06-06 00:00 G	25402079.39	25402079.50	25402079.62	0.2687	0.0344
Mercury	64838-12-06 02:53 G	25402992.49	25402992.62	25402992.75	0.2644	0.1171
Mercury	64849-06-08 19:12 G	25406830.21	25406830.30	25406830.39	0.2686	0.1544
Mercury	64851-12-09 05:03 G	25407743.57	25407743.71	25407743.85	0.2645	0.0616
Mercury	64856-06-01 14:10 G	25409380.01	25409380.09	25409380.17	0.2690	0.1928
Mercury	64864-12-11 07:41 G	25412494.78	25412494.82	25412494.87	0.2646	0.2486
Mercury	64869-06-04 09:51 G	25414130.79	25414130.91	25414131.02	0.2688	0.0673
Mercury	64871-12-04 06:58 G	25415043.76	25415043.79	25415043.82	0.2643	0.2573
Mercury	64882-06-07 05:03 G	25418881.60	25418881.71	25418881.83	0.2687	0.0572
Mercury	64884-12-06 08:53 G	25419794.73	25419794.87	25419795.00	0.2644	0.0853
Venus	64894-12-21 05:03 G	25423461.57	25423461.71	25423461.86	0.2651	0.1113
Mercury	64895-06-10 00:15 G	25423632.42	25423632.51	25423632.59	0.2686	0.1770
Mercury	64897-12-09 11:03 G	25424545.83	25424545.96	25424546.10	0.2645	0.0957
Mercury	64902-06-03 19:12 G	25426182.21	25426182.30	25426182.39	0.2689	0.1692
Venus	64902-12-19 21:22 G	25426381.29	25426381.39	25426381.49	0.2650	0.2051
Mercury	64915-06-06 14:53 G	25430933.00	25430933.12	25430933.23	0.2688	0.0435
Mercury	64917-12-05 12:58 G	25431845.97	25431846.04	25431846.11	0.2643	0.2251
Mercury	64928-06-08 10:05 G	25435683.81	25435683.92	25435684.03	0.2687	0.0796
Mercury	64930-12-08 14:53 G	25436596.98	25436597.12	25436597.26	0.2644	0.0519
Mercury	64941-06-11 05:17 G	25440434.64	25440434.72	25440434.79	0.2686	0.1993
Mercury	64943-12-11 17:03 G	25441348.09	25441348.21	25441348.34	0.2645	0.1295
Mercury	64948-06-04 00:15 G	25442984.42	25442984.51	25442984.61	0.2689	0.1452
Mercury	64961-06-06 19:55 G	25447735.21	25447735.33	25447735.44	0.2688	0.0218
Mercury	64963-12-06 18:43 G	25448648.19	25448648.28	25448648.38	0.2643	0.1943
Mercury	64974-06-09 15:07 G	25452486.02	25452486.13	25452486.24	0.2687	0.1025
Mercury	64976-12-08 20:53 G	25453399.22	25453399.37	25453399.51	0.2644	0.0199
Mercury	64981-06-02 09:51 G	25455035.87	25455035.91	25455035.95	0.2690	0.2494
Mercury	64987-06-12 10:05 G	25457236.86	25457236.92	25457236.99	0.2686	0.2215

Mercury 64989-12-11 23:17 G 25458150.35 25458150.47 25458150.58 0.2646 0.1640
 Mercury 64994-06-05 05:31 G 25459786.62 25459786.73 25459786.83 0.2689 0.1211

66TH MILLENNIUM CE

This is a list of transits visible from Earth in the 66th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	65007-06-09 00:58	G	25464537.42	25464537.54	25464537.65	0.2688	0.0080	
Mercury	65009-12-08 00:43	G	25465450.42	25465450.53	25465450.64	0.2643	0.1617	
Mercury	65020-06-10 20:10	G	25469288.23	25469288.34	25469288.44	0.2687	0.1253	
Mercury	65022-12-11 02:39	G	25470201.47	25470201.61	25470201.76	0.2644	0.0156	
Mercury	65027-06-04 14:53	G	25471838.06	25471838.12	25471838.18	0.2690	0.2249	
Venus	65032-06-20 20:39	G	25473681.24	25473681.36	25473681.47	0.2682	0.1844	
Mercury	65033-06-13 15:07	G	25474039.09	25474039.13	25474039.18	0.2686	0.2435	
Mercury	65035-12-14 05:17	G	25474952.62	25474952.72	25474952.81	0.2646	0.1978	
Mercury	65040-06-06 10:34	G	25476588.83	25476588.94	25476589.05	0.2689	0.0977	
Venus	65040-06-18 10:19	G	25476600.81	25476600.93	25476601.05	0.2683	0.1714	
Mercury	65053-06-09 06:00	G	25481339.63	25481339.75	25481339.86	0.2688	0.0280	
Mercury	65055-12-09 06:43	G	25482252.65	25482252.78	25482252.90	0.2643	0.1307	
Mercury	65066-06-12 01:12	G	25486090.45	25486090.55	25486090.64	0.2687	0.1483	
Mercury	65068-12-11 08:39	G	25487003.72	25487003.86	25487004.00	0.2645	0.0478	
Mercury	65073-06-04 19:55	G	25488640.25	25488640.33	25488640.41	0.2690	0.2010	
Mercury	65079-06-14 20:10	G	25490841.33	25490841.34	25490841.35	0.2685	0.2657	
Mercury	65081-12-14 11:17	G	25491754.90	25491754.97	25491755.04	0.2646	0.2319	

Mercury	65086-06-07 15:36 G	25493391.04	25493391.15	25493391.26	0.2689	0.0740
Mercury	65099-06-10 10:48 G	25498141.84	25498141.95	25498142.07	0.2688	0.0508
Mercury	65101-12-10 12:29 G	25499054.89	25499055.02	25499055.16	0.2643	0.0980
Mercury	65112-06-13 06:00 G	25502892.67	25502892.75	25502892.84	0.2686	0.1706
Mercury	65114-12-13 14:39 G	25503805.97	25503806.11	25503806.25	0.2645	0.0804
Mercury	65119-06-07 00:58 G	25505442.46	25505442.54	25505442.63	0.2690	0.1768
Mercury	65132-06-08 20:39 G	25510193.24	25510193.36	25510193.47	0.2689	0.0508
Mercury	65134-12-08 16:48 G	25511106.14	25511106.20	25511106.25	0.2642	0.2382
Venus	65137-12-24 07:27 G	25512217.67	25512217.81	25512217.95	0.2650	0.1285
Mercury	65145-06-11 15:51 G	25514944.05	25514944.16	25514944.27	0.2688	0.0730
Venus	65145-12-22 00:00 G	25515137.39	25515137.50	25515137.61	0.2649	0.1856
Mercury	65147-12-11 18:29 G	25515857.13	25515857.27	25515857.41	0.2644	0.0656
Mercury	65158-06-14 11:03 G	25519694.88	25519694.96	25519695.04	0.2686	0.1931
Mercury	65160-12-13 20:39 G	25520608.23	25520608.36	25520608.49	0.2645	0.1143
Mercury	65165-06-07 06:15 G	25522244.66	25522244.76	25522244.85	0.2690	0.1532
Mercury	65178-06-10 01:41 G	25526995.45	25526995.57	25526995.68	0.2689	0.0270
Mercury	65180-12-08 22:34 G	25527908.36	25527908.44	25527908.53	0.2643	0.2060
Mercury	65191-06-12 20:53 G	25531746.26	25531746.37	25531746.48	0.2687	0.0959
Mercury	65193-12-12 00:29 G	25532659.38	25532659.52	25532659.66	0.2644	0.0330
Mercury	65198-06-05 15:22 G	25534296.11	25534296.14	25534296.18	0.2691	0.2577
Mercury	65204-06-14 16:05 G	25536497.10	25536497.17	25536497.24	0.2686	0.2150
Mercury	65206-12-15 02:39 G	25537410.49	25537410.61	25537410.73	0.2645	0.1470
Mercury	65211-06-08 11:17 G	25539046.86	25539046.97	25539047.07	0.2690	0.1293
Mercury	65224-06-10 06:43 G	25543797.66	25543797.78	25543797.89	0.2688	0.0072
Mercury	65226-12-10 04:34 G	25544710.58	25544710.69	25544710.80	0.2643	0.1745
Mercury	65237-06-13 01:55 G	25548548.48	25548548.58	25548548.69	0.2687	0.1188
Mercury	65239-12-13 06:29 G	25549461.62	25549461.77	25549461.91	0.2644	0.0063
Mercury	65244-06-05 20:39 G	25551098.30	25551098.36	25551098.41	0.2691	0.2332
Mercury	65250-06-15 21:07 G	25553299.33	25553299.38	25553299.43	0.2686	0.2374
Mercury	65252-12-15 08:39 G	25554212.76	25554212.86	25554212.97	0.2645	0.1815

Mercury	65257-06-08 16:19 G	25555849.07	25555849.18	25555849.28	0.2690	0.1055
Mercury	65270-06-11 11:46 G	25560599.87	25560599.99	25560600.10	0.2688	0.0207
Mercury	65272-12-10 10:34 G	25561512.82	25561512.94	25561513.06	0.2643	0.1422
Venus	65275-06-22 20:24 G	25562437.24	25562437.35	25562437.47	0.2682	0.1842
Mercury	65283-06-14 06:58 G	25565350.69	25565350.79	25565350.89	0.2687	0.1411
Venus	65283-06-20 10:05 G	25565356.80	25565356.92	25565357.04	0.2684	0.1738
Mercury	65285-12-13 12:29 G	25566263.87	25566264.02	25566264.16	0.2644	0.0339
Mercury	65290-06-07 01:41 G	25567900.50	25567900.57	25567900.64	0.2690	0.2086
Mercury	65296-06-16 02:10 G	25570101.56	25570101.59	25570101.61	0.2686	0.2594
Mercury	65298-12-16 14:39 G	25571015.03	25571015.11	25571015.20	0.2645	0.2151
Mercury	65303-06-10 21:22 G	25572651.28	25572651.39	25572651.50	0.2689	0.0815
Mercury	65316-06-12 16:48 G	25577402.08	25577402.20	25577402.31	0.2688	0.0431
Mercury	65318-12-12 16:19 G	25578315.05	25578315.18	25578315.31	0.2643	0.1109
Mercury	65329-06-15 12:00 G	25582152.91	25582153.00	25582153.09	0.2687	0.1639
Mercury	65331-12-15 18:15 G	25583066.13	25583066.26	25583066.40	0.2644	0.0667
Mercury	65336-06-08 06:43 G	25584702.70	25584702.78	25584702.87	0.2690	0.1847
Mercury	65344-12-17 20:53 G	25587817.32	25587817.37	25587817.41	0.2646	0.2498
Mercury	65349-06-11 02:24 G	25589453.48	25589453.60	25589453.71	0.2689	0.0576
Mercury	65351-12-10 20:39 G	25590366.32	25590366.36	25590366.41	0.2642	0.2490
Mercury	65362-06-13 21:51 G	25594204.30	25594204.41	25594204.52	0.2688	0.0663
Mercury	65364-12-12 22:19 G	25595117.29	25595117.43	25595117.56	0.2643	0.0784
Mercury	65375-06-16 17:03 G	25598955.13	25598955.21	25598955.29	0.2687	0.1862
Mercury	65377-12-16 00:15 G	25599868.38	25599868.51	25599868.64	0.2644	0.0986
Venus	65380-12-25 10:05 G	25600973.79	25600973.92	25600974.05	0.2649	0.1466
Mercury	65382-06-09 11:46 G	25601504.90	25601504.99	25601505.09	0.2690	0.1606
Venus	65388-12-23 02:24 G	25603893.48	25603893.60	25603893.72	0.2648	0.1674
Mercury	65395-06-12 07:27 G	25606255.69	25606255.81	25606255.92	0.2689	0.0345
Mercury	65397-12-11 02:24 G	25607168.53	25607168.60	25607168.68	0.2642	0.2183
Mercury	65408-06-15 02:53 G	25611006.51	25611006.62	25611006.73	0.2688	0.0891
Mercury	65410-12-15 04:05 G	25611919.53	25611919.67	25611919.81	0.2643	0.0472

Mercury	65415-06-08 21:07 G	25613556.37	25613556.38	25613556.40	0.2691	0.2657
Mercury	65421-06-17 22:05 G	25615757.35	25615757.42	25615757.49	0.2687	0.2090
Mercury	65423-12-18 06:15 G	25616670.64	25616670.76	25616670.89	0.2645	0.1327
Mercury	65428-06-10 16:48 G	25618307.10	25618307.20	25618307.31	0.2690	0.1371
Mercury	65441-06-13 12:29 G	25623057.90	25623058.02	25623058.14	0.2689	0.0107
Mercury	65443-12-13 08:24 G	25623970.75	25623970.85	25623970.95	0.2642	0.1866
Mercury	65454-06-16 07:55 G	25627808.72	25627808.83	25627808.93	0.2688	0.1120
Mercury	65456-12-15 10:05 G	25628721.78	25628721.92	25628722.06	0.2643	0.0142
Mercury	65461-06-09 02:10 G	25630358.54	25630358.59	25630358.64	0.2691	0.2415
Mercury	65467-06-19 03:07 G	25632559.57	25632559.63	25632559.68	0.2686	0.2310
Mercury	65469-12-18 12:15 G	25633472.90	25633473.01	25633473.12	0.2645	0.1652
Mercury	65474-06-11 22:05 G	25635109.31	25635109.42	25635109.52	0.2690	0.1131
Mercury	65487-06-14 17:31 G	25639860.11	25639860.23	25639860.35	0.2689	0.0126
Mercury	65489-12-13 14:10 G	25640772.98	25640773.09	25640773.21	0.2642	0.1556
Mercury	65500-06-17 12:58 G	25644610.94	25644611.04	25644611.14	0.2688	0.1347
Mercury	65502-12-17 16:05 G	25645524.03	25645524.17	25645524.31	0.2644	0.0186
Mercury	65507-06-11 07:27 G	25647160.74	25647160.81	25647160.87	0.2691	0.2172
Mercury	65513-06-20 07:55 G	25649361.80	25649361.83	25649361.87	0.2686	0.2533
Mercury	65515-12-20 18:15 G	25650275.17	25650275.26	25650275.36	0.2645	0.1995
Venus	65518-06-25 20:39 G	25651193.24	25651193.36	25651193.47	0.2684	0.1840
Mercury	65520-06-13 03:07 G	25651911.52	25651911.63	25651911.74	0.2690	0.0890
Venus	65526-06-23 10:19 G	25654112.81	25654112.93	25654113.05	0.2685	0.1727
Mercury	65533-06-15 22:34 G	25656662.33	25656662.44	25656662.56	0.2689	0.0361
Mercury	65535-12-15 20:10 G	25657575.22	25657575.34	25657575.47	0.2642	0.1231
Mercury	65546-06-18 17:46 G	25661413.15	25661413.24	25661413.34	0.2687	0.1575
Mercury	65548-12-17 22:05 G	25662326.28	25662326.42	25662326.56	0.2644	0.0514
Mercury	65553-06-11 12:29 G	25663962.94	25663963.02	25663963.10	0.2691	0.1926
Mercury	65561-12-21 00:15 G	25667077.45	25667077.51	25667077.58	0.2645	0.2331
Mercury	65566-06-14 08:10 G	25668713.72	25668713.84	25668713.95	0.2690	0.0651
Mercury	65568-12-13 00:43 G	25669626.50	25669626.53	25669626.55	0.2641	0.2602

Mercury	65579-06-17 03:36 G	25673464.54	25673464.65	25673464.77	0.2689	0.0590
Mercury	65581-12-16 02:10 G	25674377.45	25674377.59	25674377.72	0.2643	0.0922
Mercury	65592-06-18 22:48 G	25678215.37	25678215.45	25678215.54	0.2687	0.1801
Mercury	65594-12-19 04:05 G	25679128.53	25679128.67	25679128.80	0.2644	0.0848
Mercury	65599-06-12 17:31 G	25680765.14	25680765.23	25680765.32	0.2691	0.1684
Mercury	65612-06-14 13:12 G	25685515.94	25685516.05	25685516.17	0.2690	0.0416
Mercury	65614-12-14 06:29 G	25686428.70	25686428.77	25686428.84	0.2641	0.2292
Venus	65623-12-28 12:29 G	25689729.90	25689730.02	25689730.14	0.2648	0.1644
Mercury	65625-06-17 08:39 G	25690266.75	25690266.86	25690266.97	0.2688	0.0822
Mercury	65627-12-17 07:55 G	25691179.69	25691179.83	25691179.97	0.2643	0.0595
Venus	65631-12-26 05:03 G	25692649.58	25692649.71	25692649.84	0.2647	0.1475
Mercury	65638-06-20 03:51 G	25695017.59	25695017.66	25695017.74	0.2687	0.2022
Mercury	65640-12-19 10:05 G	25695930.79	25695930.92	25695931.04	0.2644	0.1178
Mercury	65645-06-12 22:34 G	25697567.35	25697567.44	25697567.54	0.2690	0.1445
Mercury	65658-06-15 18:15 G	25702318.15	25702318.26	25702318.38	0.2689	0.0184
Mercury	65660-12-14 12:15 G	25703230.92	25703231.01	25703231.10	0.2642	0.1985
Mercury	65671-06-18 13:41 G	25707068.96	25707069.07	25707069.18	0.2688	0.1050
Mercury	65673-12-17 13:55 G	25707981.94	25707982.08	25707982.22	0.2643	0.0272
Mercury	65678-06-11 07:55 G	25709618.79	25709618.83	25709618.87	0.2691	0.2494
Mercury	65684-06-20 08:53 G	25711819.81	25711819.87	25711819.93	0.2687	0.2250
Mercury	65686-12-20 16:05 G	25712733.05	25712733.17	25712733.28	0.2644	0.1514
Mercury	65691-06-14 03:51 G	25714369.55	25714369.66	25714369.76	0.2690	0.1204
Mercury	65704-06-16 23:17 G	25719120.36	25719120.47	25719120.59	0.2689	0.0085
Mercury	65706-12-16 18:15 G	25720033.15	25720033.26	25720033.37	0.2642	0.1671
Mercury	65717-06-19 18:43 G	25723871.18	25723871.28	25723871.38	0.2688	0.1281
Mercury	65719-12-19 19:55 G	25724784.18	25724784.33	25724784.47	0.2643	0.0069
Mercury	65724-06-12 12:58 G	25726420.98	25726421.04	25726421.11	0.2691	0.2250
Mercury	65730-06-22 13:55 G	25728622.04	25728622.08	25728622.12	0.2687	0.2470
Mercury	65732-12-21 21:51 G	25729535.31	25729535.41	25729535.52	0.2644	0.1841
Mercury	65737-06-15 08:53 G	25731171.76	25731171.87	25731171.98	0.2690	0.0964

Mercury	65750-06-18 04:19 G	25735922.57	25735922.68	25735922.80	0.2689	0.0291
Mercury	65752-12-17 00:00 G	25736835.38	25736835.50	25736835.62	0.2642	0.1361
Venus	65761-06-26 20:39 G	25739949.24	25739949.36	25739949.47	0.2684	0.1845
Mercury	65763-06-20 23:46 G	25740673.39	25740673.49	25740673.59	0.2688	0.1508
Mercury	65765-12-20 01:41 G	25741586.43	25741586.57	25741586.71	0.2643	0.0378
Venus	65769-06-24 10:05 G	25742868.80	25742868.92	25742869.04	0.2686	0.1749
Mercury	65770-06-13 18:15 G	25743223.18	25743223.26	25743223.33	0.2691	0.2008
Mercury	65778-12-23 03:51 G	25746337.59	25746337.66	25746337.74	0.2645	0.2182
Mercury	65783-06-16 13:55 G	25747973.97	25747974.08	25747974.19	0.2690	0.0726
Mercury	65796-06-18 09:22 G	25752724.78	25752724.89	25752725.01	0.2689	0.0524
Mercury	65798-12-18 06:00 G	25753637.62	25753637.75	25753637.88	0.2642	0.1041
Mercury	65809-06-22 04:48 G	25757475.61	25757475.70	25757475.79	0.2688	0.1735
Mercury	65811-12-22 07:41 G	25758388.68	25758388.82	25758388.96	0.2643	0.0700
Mercury	65816-06-14 23:17 G	25760025.38	25760025.47	25760025.56	0.2691	0.1762
Mercury	65824-12-24 09:51 G	25763139.87	25763139.91	25763139.95	0.2645	0.2509
Mercury	65829-06-17 18:58 G	25764776.17	25764776.29	25764776.41	0.2690	0.0489
Mercury	65831-12-17 10:34 G	25765688.88	25765688.94	25765688.99	0.2641	0.2404
Mercury	65842-06-20 14:24 G	25769526.99	25769527.10	25769527.21	0.2689	0.0753
Mercury	65844-12-19 11:46 G	25770439.86	25770439.99	25770440.13	0.2642	0.0724
Mercury	65855-06-23 09:51 G	25774277.83	25774277.91	25774277.99	0.2688	0.1962
Mercury	65857-12-22 13:41 G	25775190.94	25775191.07	25775191.20	0.2644	0.1032
Mercury	65862-06-16 04:19 G	25776827.59	25776827.68	25776827.78	0.2691	0.1520
Venus	65866-12-30 15:07 G	25778486.02	25778486.13	25778486.24	0.2647	0.1854
Venus	65874-12-28 07:41 G	25781405.68	25781405.82	25781405.96	0.2646	0.1268
Mercury	65875-06-19 00:00 G	25781578.38	25781578.50	25781578.62	0.2690	0.0253
Mercury	65877-12-17 16:19 G	25782491.10	25782491.18	25782491.26	0.2641	0.2092
Mercury	65888-06-20 19:27 G	25786329.20	25786329.31	25786329.42	0.2689	0.0986
Mercury	65890-12-20 17:46 G	25787242.10	25787242.24	25787242.38	0.2642	0.0399
Mercury	65895-06-14 13:41 G	25788879.04	25788879.07	25788879.10	0.2692	0.2573
Mercury	65901-06-24 14:53 G	25791080.05	25791080.12	25791080.18	0.2687	0.2185

Mercury	65903-12-24	19:41	G	25791993.20	25791993.32	25791993.44	0.2644	0.1361
Mercury	65908-06-17	09:22	G	25793629.79	25793629.89	25793630.00	0.2691	0.1281
Mercury	65921-06-20	05:03	G	25798380.59	25798380.71	25798380.83	0.2690	0.0045
Mercury	65923-12-19	22:05	G	25799293.32	25799293.42	25799293.52	0.2641	0.1785
Mercury	65934-06-23	00:29	G	25803131.42	25803131.52	25803131.63	0.2689	0.1217
Mercury	65936-12-21	23:31	G	25804044.34	25804044.48	25804044.63	0.2643	0.0120
Mercury	65941-06-15	18:43	G	25805681.22	25805681.28	25805681.34	0.2692	0.2330
Mercury	65947-06-25	19:55	G	25807882.28	25807882.33	25807882.38	0.2687	0.2412
Mercury	65949-12-25	01:41	G	25808795.46	25808795.57	25808795.68	0.2644	0.1698
Mercury	65954-06-18	14:39	G	25810432.00	25810432.11	25810432.21	0.2691	0.1042
Mercury	65967-06-21	10:05	G	25815182.81	25815182.92	25815183.04	0.2690	0.0238
Mercury	65969-12-20	04:05	G	25816095.55	25816095.67	25816095.78	0.2641	0.1472
Mercury	65980-06-23	05:31	G	25819933.64	25819933.73	25819933.83	0.2688	0.1446
Mercury	65982-12-23	05:31	G	25820846.59	25820846.73	25820846.87	0.2643	0.0245
Mercury	65987-06-16	23:46	G	25822483.42	25822483.49	25822483.57	0.2692	0.2085
Mercury	65993-06-26	00:43	G	25824684.52	25824684.53	25824684.55	0.2687	0.2634
Mercury	65995-12-26	07:27	G	25825597.72	25825597.81	25825597.91	0.2644	0.2027
Mercury	66000-06-18	19:41	G	25827234.20	25827234.32	25827234.43	0.2690	0.0804

67TH MILLENNIUM CE

This is a list of transits visible from Earth in the 67th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	66004-06-28	20:39	G	25828705.24	25828705.36	25828705.47	0.2686	0.1842

Venus	66012-06-26 10:05 G	25831624.80	25831624.92	25831625.04	0.2687	0.1745
Mercury	66013-06-21 15:07 G	25831985.02	25831985.13	25831985.25	0.2689	0.0464
Mercury	66015-12-21 09:51 G	25832897.78	25832897.91	25832898.04	0.2642	0.1161
Mercury	66026-06-24 10:34 G	25836735.85	25836735.94	25836736.03	0.2688	0.1675
Mercury	66028-12-23 11:31 G	25837648.84	25837648.98	25837649.12	0.2643	0.0567
Mercury	66033-06-17 05:03 G	25839285.62	25839285.71	25839285.79	0.2691	0.1844
Mercury	66041-12-26 13:41 G	25842400.01	25842400.07	25842400.13	0.2644	0.2365
Mercury	66046-06-20 00:43 G	25844036.41	25844036.53	25844036.64	0.2690	0.0560
Mercury	66048-12-18 14:24 G	25844949.06	25844949.10	25844949.14	0.2641	0.2512
Mercury	66059-06-22 20:24 G	25848787.23	25848787.35	25848787.46	0.2689	0.0692
Mercury	66061-12-21 15:51 G	25849700.02	25849700.16	25849700.29	0.2642	0.0850
Mercury	66072-06-24 15:36 G	25853538.07	25853538.15	25853538.23	0.2688	0.1899
Mercury	66074-12-24 17:31 G	25854451.09	25854451.23	25854451.36	0.2643	0.0893
Mercury	66079-06-18 10:05 G	25856087.82	25856087.92	25856088.01	0.2691	0.1600
Mercury	66092-06-20 05:46 G	25860838.62	25860838.74	25860838.86	0.2690	0.0324
Mercury	66094-12-19 20:10 G	25861751.27	25861751.34	25861751.42	0.2641	0.2208
Mercury	66105-06-24 01:27 G	25865589.45	25865589.56	25865589.67	0.2689	0.0922
Mercury	66107-12-23 21:36 G	25866502.26	25866502.40	25866502.54	0.2642	0.0535
Venus	66110-01-01 17:46 G	25867242.14	25867242.24	25867242.34	0.2646	0.2034
Mercury	66112-06-16 19:12 G	25868139.29	25868139.30	25868139.31	0.2692	0.2661
Venus	66117-12-30 10:19 G	25870161.78	25870161.93	25870162.07	0.2645	0.1062
Mercury	66118-06-26 20:39 G	25870340.29	25870340.36	25870340.43	0.2688	0.2124
Mercury	66120-12-25 23:17 G	25871253.35	25871253.47	25871253.60	0.2643	0.1219
Mercury	66125-06-19 15:07 G	25872890.03	25872890.13	25872890.23	0.2691	0.1358
Mercury	66138-06-22 10:48 G	25877640.84	25877640.95	25877641.07	0.2690	0.0116
Mercury	66140-12-21 02:10 G	25878553.49	25878553.59	25878553.69	0.2641	0.1894
Mercury	66151-06-25 06:29 G	25882391.66	25882391.77	25882391.87	0.2689	0.1151
Mercury	66153-12-24 03:36 G	25883304.50	25883304.65	25883304.79	0.2642	0.0225
Mercury	66158-06-18 00:15 G	25884941.46	25884941.51	25884941.56	0.2692	0.2412
Mercury	66164-06-27 01:41 G	25887142.52	25887142.57	25887142.62	0.2688	0.2347

Mercury	66166-12-27 05:17 G	25888055.60	25888055.72	25888055.84	0.2643	0.1543
Mercury	66171-06-20 20:10 G	25889692.24	25889692.34	25889692.45	0.2691	0.1117
Mercury	66184-06-22 15:51 G	25894443.05	25894443.16	25894443.28	0.2690	0.0169
Mercury	66186-12-22 07:55 G	25895355.72	25895355.83	25895355.94	0.2641	0.1587
Mercury	66197-06-25 11:31 G	25899193.88	25899193.98	25899194.08	0.2689	0.1379
Mercury	66199-12-25 09:22 G	25900106.75	25900106.89	25900107.04	0.2642	0.0128
Mercury	66204-06-19 05:31 G	25901743.66	25901743.73	25901743.80	0.2692	0.2167
Mercury	66210-06-29 06:43 G	25903944.75	25903944.78	25903944.81	0.2688	0.2571
Mercury	66212-12-28 11:17 G	25904857.87	25904857.97	25904858.07	0.2644	0.1878
Mercury	66217-06-22 01:27 G	25906494.45	25906494.56	25906494.67	0.2691	0.0875
Mercury	66230-06-24 21:07 G	25911245.26	25911245.38	25911245.49	0.2690	0.0395
Mercury	66232-12-23 13:55 G	25912157.95	25912158.08	25912158.20	0.2641	0.1278
Mercury	66243-06-27 16:19 G	25915996.09	25915996.18	25915996.28	0.2689	0.1608
Mercury	66245-12-26 15:22 G	25916909.00	25916909.14	25916909.28	0.2642	0.0433
Venus	66247-07-01 20:24 G	25917461.24	25917461.35	25917461.47	0.2686	0.1834
Mercury	66250-06-20 10:34 G	25918545.86	25918545.94	25918546.02	0.2692	0.1919
Venus	66255-06-29 10:05 G	25920380.80	25920380.92	25920381.04	0.2688	0.1762
Mercury	66258-12-29 17:17 G	25921660.14	25921660.22	25921660.30	0.2644	0.2211
Mercury	66263-06-23 06:29 G	25923296.65	25923296.77	25923296.88	0.2691	0.0635
Mercury	66265-12-21 18:29 G	25924209.26	25924209.27	25924209.29	0.2640	0.2616
Mercury	66276-06-25 02:10 G	25928047.47	25928047.59	25928047.70	0.2690	0.0622
Mercury	66278-12-24 19:41 G	25928960.19	25928960.32	25928960.45	0.2641	0.0968
Mercury	66289-06-27 21:36 G	25932798.31	25932798.40	25932798.48	0.2689	0.1837
Mercury	66291-12-27 21:07 G	25933711.25	25933711.38	25933711.52	0.2643	0.0759
Mercury	66296-06-20 15:36 G	25935348.06	25935348.15	25935348.25	0.2692	0.1680
Mercury	66304-12-30 23:17 G	25938462.43	25938462.47	25938462.50	0.2644	0.2545
Mercury	66309-06-24 11:31 G	25940098.86	25940098.98	25940099.10	0.2691	0.0396
Mercury	66311-12-24 00:15 G	25941011.45	25941011.51	25941011.58	0.2640	0.2311
Mercury	66322-06-27 07:12 G	25944849.69	25944849.80	25944849.91	0.2690	0.0853
Mercury	66324-12-26 01:27 G	25945762.43	25945762.56	25945762.70	0.2641	0.0656

Mercury	66335-06-30 02:24 G	25949600.53	25949600.60	25949600.68	0.2688	0.2064
Mercury	66337-12-29 03:07 G	25950513.50	25950513.63	25950513.76	0.2643	0.1078
Mercury	66342-06-22 20:53 G	25952150.27	25952150.37	25952150.47	0.2692	0.1433
Venus	66353-01-03 20:24 G	25955998.27	25955998.35	25955998.44	0.2646	0.2258
Mercury	66355-06-25 16:34 G	25956901.07	25956901.19	25956901.31	0.2690	0.0163
Mercury	66357-12-24 06:00 G	25957813.66	25957813.75	25957813.84	0.2640	0.2014
Venus	66361-01-01 13:12 G	25958917.90	25958918.05	25958918.20	0.2644	0.0852
Mercury	66368-06-27 12:15 G	25961651.90	25961652.01	25961652.11	0.2689	0.1083
Mercury	66370-12-27 07:27 G	25962564.67	25962564.81	25962564.95	0.2642	0.0339
Mercury	66375-06-21 06:00 G	25964201.71	25964201.75	25964201.79	0.2693	0.2498
Mercury	66381-06-30 07:41 G	25966402.76	25966402.82	25966402.87	0.2688	0.2289
Mercury	66383-12-30 09:07 G	25967315.76	25967315.88	25967316.00	0.2643	0.1405
Mercury	66388-06-23 01:55 G	25968952.48	25968952.58	25968952.69	0.2692	0.1191
Mercury	66401-06-25 21:36 G	25973703.29	25973703.40	25973703.52	0.2690	0.0108
Mercury	66403-12-25 12:00 G	25974615.89	25974616.00	25974616.10	0.2641	0.1702
Mercury	66414-06-28 17:17 G	25978454.11	25978454.22	25978454.32	0.2689	0.1312
Mercury	66416-12-27 13:12 G	25979366.91	25979367.05	25979367.19	0.2642	0.0040
Mercury	66421-06-21 11:03 G	25981003.90	25981003.96	25981004.03	0.2693	0.2248
Mercury	66427-07-01 12:29 G	25983204.99	25983205.02	25983205.06	0.2688	0.2511
Mercury	66429-12-30 14:53 G	25984118.02	25984118.12	25984118.23	0.2643	0.1729
Mercury	66434-06-24 06:58 G	25985754.68	25985754.79	25985754.90	0.2691	0.0953
Mercury	66447-06-27 02:39 G	25990505.50	25990505.61	25990505.73	0.2690	0.0322
Mercury	66449-12-25 17:46 G	25991418.12	25991418.24	25991418.36	0.2641	0.1396
Mercury	66460-06-28 22:19 G	25995256.33	25995256.43	25995256.52	0.2689	0.1543
Mercury	66462-12-28 19:12 G	25996169.15	25996169.30	25996169.44	0.2642	0.0305
Mercury	66467-06-22 16:19 G	25997806.10	25997806.18	25997806.25	0.2692	0.2007
Mercury	66475-12-31 20:53 G	26000920.28	26000920.37	26000920.46	0.2643	0.2059
Mercury	66480-06-24 12:00 G	26002556.89	26002557.00	26002557.12	0.2691	0.0719
Venus	66490-07-02 20:10 G	26006217.23	26006217.34	26006217.46	0.2687	0.1817
Mercury	66493-06-27 07:41 G	26007307.71	26007307.82	26007307.94	0.2690	0.0554

Mercury	66495-12-26 23:46 G	26008220.36	26008220.49	26008220.61	0.2641	0.1083
Venus	66498-06-30 09:51 G	26009136.79	26009136.91	26009137.02	0.2689	0.1790
Mercury	66506-07-01 03:22 G	26012058.55	26012058.64	26012058.72	0.2689	0.1769
Mercury	66508-12-30 00:58 G	26012971.40	26012971.54	26012971.68	0.2642	0.0622
Mercury	66513-06-23 21:22 G	26014608.30	26014608.39	26014608.48	0.2692	0.1754
Mercury	66522-01-02 02:53 G	26017722.56	26017722.62	26017722.68	0.2644	0.2388
Mercury	66526-06-26 17:17 G	26019359.10	26019359.22	26019359.33	0.2691	0.0479
Mercury	66528-12-25 04:19 G	26020271.63	26020271.68	26020271.74	0.2640	0.2420
Mercury	66539-06-29 12:58 G	26024109.92	26024110.04	26024110.15	0.2690	0.0786
Mercury	66541-12-28 05:31 G	26025022.59	26025022.73	26025022.86	0.2641	0.0772
Mercury	66552-07-01 08:24 G	26028860.77	26028860.85	26028860.92	0.2689	0.1997
Mercury	66554-12-31 06:58 G	26029773.66	26029773.79	26029773.92	0.2642	0.0946
Mercury	66559-06-25 02:24 G	26031410.51	26031410.60	26031410.70	0.2692	0.1514
Mercury	66572-06-26 22:19 G	26036161.31	26036161.43	26036161.55	0.2691	0.0230
Mercury	66574-12-26 10:05 G	26037073.84	26037073.92	26037074.01	0.2640	0.2114
Mercury	66585-06-29 18:00 G	26040912.14	26040912.25	26040912.36	0.2690	0.1014
Mercury	66587-12-29 11:17 G	26041824.83	26041824.97	26041825.11	0.2641	0.0460
Mercury	66592-06-22 11:31 G	26043461.95	26043461.98	26043462.01	0.2693	0.2579
Venus	66596-01-05 23:03 G	26044754.40	26044754.46	26044754.52	0.2645	0.2438
Mercury	66598-07-02 13:27 G	26045662.99	26045663.06	26045663.12	0.2689	0.2224
Mercury	66601-01-01 12:43 G	26046575.91	26046576.03	26046576.16	0.2642	0.1267
Venus	66604-01-04 15:36 G	26047674.00	26047674.15	26047674.31	0.2644	0.0642
Mercury	66605-06-26 07:27 G	26048212.71	26048212.81	26048212.92	0.2692	0.1273
Mercury	66618-06-29 03:22 G	26052963.52	26052963.64	26052963.76	0.2691	0.0017
Mercury	66620-12-27 15:51 G	26053876.06	26053876.16	26053876.27	0.2640	0.1817
Mercury	66631-07-01 23:03 G	26057714.36	26057714.46	26057714.56	0.2690	0.1247
Mercury	66633-12-30 17:03 G	26058627.07	26058627.21	26058627.35	0.2641	0.0162
Mercury	66638-06-24 16:34 G	26060264.14	26060264.19	26060264.25	0.2693	0.2334
Mercury	66644-07-03 18:29 G	26062465.22	26062465.27	26062465.31	0.2689	0.2450
Mercury	66647-01-02 18:43 G	26063378.17	26063378.28	26063378.40	0.2643	0.1594

Mercury	66651-06-27 12:43 G	26065014.92	26065015.03	26065015.14	0.2692	0.1032
Mercury	66664-06-29 08:24 G	26069765.74	26069765.85	26069765.97	0.2691	0.0249
Mercury	66666-12-28 21:51 G	26070678.29	26070678.41	26070678.52	0.2640	0.1506
Mercury	66677-07-02 04:05 G	26074516.57	26074516.67	26074516.77	0.2690	0.1474
Mercury	66679-12-31 23:03 G	26075429.32	26075429.46	26075429.60	0.2641	0.0170
Mercury	66684-06-24 21:51 G	26077066.34	26077066.41	26077066.48	0.2693	0.2084
Mercury	66690-07-04 23:31 G	26079267.47	26079267.48	26079267.48	0.2688	0.2675
Mercury	66693-01-03 00:43 G	26080180.43	26080180.53	26080180.63	0.2643	0.1915
Mercury	66697-06-27 17:46 G	26081817.13	26081817.24	26081817.35	0.2692	0.0787
Mercury	66710-07-01 13:27 G	26086567.95	26086568.06	26086568.18	0.2691	0.0481
Mercury	66712-12-30 03:36 G	26087480.52	26087480.65	26087480.77	0.2640	0.1206
Mercury	66723-07-04 09:07 G	26091318.79	26091318.88	26091318.97	0.2689	0.1704
Mercury	66726-01-02 04:48 G	26092231.56	26092231.70	26092231.84	0.2642	0.0494
Mercury	66730-06-27 02:53 G	26093868.54	26093868.62	26093868.71	0.2693	0.1841
Venus	66733-07-05 20:10 G	26094973.22	26094973.34	26094973.46	0.2688	0.1801
Mercury	66739-01-05 06:43 G	26096982.70	26096982.78	26096982.85	0.2643	0.2244
Venus	66741-07-03 09:36 G	26097892.78	26097892.90	26097893.01	0.2690	0.1802
Mercury	66743-06-29 22:48 G	26098619.34	26098619.45	26098619.57	0.2692	0.0552
Mercury	66745-12-28 08:24 G	26099531.82	26099531.85	26099531.89	0.2640	0.2520
Mercury	66756-07-01 18:43 G	26103370.16	26103370.28	26103370.39	0.2690	0.0716
Mercury	66758-12-31 09:22 G	26104282.76	26104282.89	26104283.02	0.2641	0.0890
Mercury	66769-07-04 14:10 G	26108121.01	26108121.09	26108121.17	0.2689	0.1931
Mercury	66772-01-03 10:48 G	26109033.81	26109033.95	26109034.08	0.2642	0.0803
Mercury	66776-06-27 07:55 G	26110670.74	26110670.83	26110670.93	0.2693	0.1597
Mercury	66785-01-05 12:29 G	26113784.99	26113785.02	26113785.05	0.2643	0.2574
Mercury	66789-06-30 04:05 G	26115421.55	26115421.67	26115421.78	0.2691	0.0325
Mercury	66791-12-29 14:10 G	26116334.02	26116334.09	26116334.17	0.2640	0.2221
Mercury	66802-07-02 23:46 G	26120172.38	26120172.49	26120172.60	0.2690	0.0945
Mercury	66804-12-31 15:22 G	26121085.00	26121085.14	26121085.27	0.2641	0.0587
Mercury	66809-06-25 17:03 G	26122722.20	26122722.21	26122722.23	0.2693	0.2664

Mercury	66815-07-05 19:12 G	26124923.23	26124923.30	26124923.37	0.2689	0.2161
Mercury	66818-01-03 16:48 G	26125836.07	26125836.20	26125836.32	0.2642	0.1134
Mercury	66822-06-28 13:12 G	26127472.95	26127473.05	26127473.15	0.2692	0.1351
Mercury	66835-07-01 09:07 G	26132223.76	26132223.88	26132224.00	0.2691	0.0071
Mercury	66837-12-29 20:10 G	26133136.24	26133136.34	26133136.43	0.2640	0.1915
Venus	66847-01-05 18:29 G	26136430.11	26136430.27	26136430.42	0.2643	0.0429
Mercury	66848-07-03 04:48 G	26136974.59	26136974.70	26136974.80	0.2690	0.1178
Mercury	66851-01-01 21:07 G	26137887.24	26137887.38	26137887.52	0.2641	0.0264
Mercury	66855-06-26 22:19 G	26139524.38	26139524.43	26139524.48	0.2693	0.2416
Mercury	66861-07-06 00:15 G	26141725.46	26141725.51	26141725.56	0.2689	0.2385
Mercury	66864-01-04 22:34 G	26142638.32	26142638.44	26142638.56	0.2642	0.1453
Mercury	66868-06-28 18:15 G	26144275.16	26144275.26	26144275.37	0.2692	0.1106
Mercury	66881-07-01 14:10 G	26149025.97	26149026.09	26149026.21	0.2691	0.0169
Mercury	66883-12-31 01:55 G	26149938.47	26149938.58	26149938.68	0.2640	0.1620
Mercury	66894-07-04 09:51 G	26153776.81	26153776.91	26153777.01	0.2690	0.1408
Mercury	66897-01-02 02:53 G	26154689.48	26154689.62	26154689.77	0.2641	0.0092
Mercury	66901-06-28 03:22 G	26156326.57	26156326.64	26156326.71	0.2693	0.2169
Mercury	66907-07-08 05:17 G	26158527.69	26158527.72	26158527.74	0.2689	0.2612
Mercury	66910-01-06 04:34 G	26159440.59	26159440.69	26159440.79	0.2642	0.1779
Mercury	66914-06-30 23:31 G	26161077.36	26161077.48	26161077.59	0.2692	0.0864
Mercury	66927-07-03 19:12 G	26165828.19	26165828.30	26165828.42	0.2691	0.0415
Mercury	66930-01-01 07:41 G	26166740.70	26166740.82	26166740.94	0.2640	0.1307
Mercury	66940-07-05 14:53 G	26170579.03	26170579.12	26170579.21	0.2690	0.1639
Mercury	66943-01-04 08:53 G	26171491.73	26171491.87	26171492.01	0.2641	0.0363
Mercury	66947-06-29 08:24 G	26173128.77	26173128.85	26173128.94	0.2693	0.1923
Mercury	66956-01-07 10:19 G	26176242.85	26176242.93	26176243.02	0.2642	0.2100
Mercury	66960-07-01 04:34 G	26177879.57	26177879.69	26177879.80	0.2692	0.0622
Mercury	66962-12-30 12:29 G	26178792.01	26178792.02	26178792.04	0.2639	0.2622
Mercury	66973-07-04 00:15 G	26182630.40	26182630.51	26182630.63	0.2691	0.0644
Mercury	66976-01-02 13:27 G	26183542.93	26183543.06	26183543.19	0.2640	0.1010

Venus	66976-07-06 19:41 G	26183729.20	26183729.32	26183729.44	0.2689	0.1769
Venus	66984-07-04 09:07 G	26186648.77	26186648.88	26186649.00	0.2691	0.1846
Mercury	66986-07-06 19:55 G	26187381.25	26187381.33	26187381.41	0.2690	0.1871
Mercury	66989-01-04 14:39 G	26188293.97	26188294.11	26188294.25	0.2641	0.0680
Mercury	66993-06-29 13:41 G	26189930.98	26189931.07	26189931.16	0.2693	0.1675

68TH MILLENNIUM CE

This is a list of transits visible from Earth in the 68th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	67002-01-08 16:19 G		26193045.13	26193045.18	26193045.23	0.2643	0.2428	
Mercury	67006-07-03 09:36 G		26194681.79	26194681.90	26194682.02	0.2692	0.0386	
Mercury	67008-12-31 18:29 G		26195594.20	26195594.27	26195594.33	0.2639	0.2323	
Mercury	67019-07-06 05:17 G		26199432.61	26199432.72	26199432.84	0.2691	0.0881	
Mercury	67022-01-03 19:12 G		26200345.17	26200345.30	26200345.44	0.2640	0.0697	
Mercury	67032-07-08 00:58 G		26204183.47	26204183.54	26204183.61	0.2690	0.2095	
Mercury	67035-01-06 20:24 G		26205096.22	26205096.35	26205096.49	0.2641	0.0995	
Mercury	67039-07-01 18:43 G		26206733.18	26206733.28	26206733.38	0.2693	0.1430	
Mercury	67052-07-03 14:39 G		26211484.00	26211484.11	26211484.23	0.2692	0.0168	
Mercury	67055-01-02 00:15 G		26212396.42	26212396.51	26212396.59	0.2639	0.2024	
Mercury	67065-07-06 10:34 G		26216234.83	26216234.94	26216235.04	0.2691	0.1111	
Mercury	67068-01-05 00:58 G		26217147.41	26217147.54	26217147.68	0.2641	0.0398	
Mercury	67072-06-29 03:51 G		26218784.62	26218784.66	26218784.70	0.2694	0.2502	
Mercury	67078-07-09 06:00 G		26220985.69	26220985.75	26220985.81	0.2690	0.2326	

Mercury	67081-01-07 02:24 G	26221898.48	26221898.60	26221898.72	0.2642	0.1316
Mercury	67085-07-02 00:00 G	26223535.39	26223535.50	26223535.60	0.2693	0.1186
Venus	67090-01-07 21:07 G	26225186.22	26225186.38	26225186.54	0.2642	0.0213
Mercury	67098-07-04 19:55 G	26228286.21	26228286.33	26228286.45	0.2692	0.0122
Mercury	67101-01-03 06:00 G	26229198.64	26229198.75	26229198.85	0.2639	0.1716
Mercury	67111-07-08 15:36 G	26233037.05	26233037.15	26233037.25	0.2690	0.1343
Mercury	67114-01-06 06:58 G	26233949.65	26233949.79	26233949.93	0.2641	0.0075
Mercury	67118-07-01 08:53 G	26235586.81	26235586.87	26235586.94	0.2694	0.2251
Mercury	67124-07-10 11:03 G	26237787.93	26237787.96	26237787.99	0.2689	0.2549
Mercury	67127-01-09 08:10 G	26238700.73	26238700.84	26238700.96	0.2642	0.1634
Mercury	67131-07-04 05:03 G	26240337.60	26240337.71	26240337.82	0.2693	0.0940
Mercury	67144-07-06 00:58 G	26245088.42	26245088.54	26245088.66	0.2692	0.0335
Mercury	67147-01-04 11:46 G	26246000.87	26246000.99	26246001.11	0.2639	0.1420
Mercury	67157-07-08 20:39 G	26249839.26	26249839.36	26249839.45	0.2690	0.1574
Mercury	67160-01-07 12:43 G	26250751.89	26250752.03	26250752.17	0.2641	0.0239
Mercury	67164-07-01 14:10 G	26252389.01	26252389.09	26252389.17	0.2693	0.2002
Mercury	67173-01-09 14:10 G	26255503.00	26255503.09	26255503.19	0.2642	0.1966
Mercury	67177-07-04 10:05 G	26257139.81	26257139.92	26257140.04	0.2693	0.0704
Mercury	67190-07-07 06:00 G	26261890.64	26261890.75	26261890.87	0.2691	0.0573
Mercury	67193-01-04 17:31 G	26262803.10	26262803.23	26262803.36	0.2640	0.1113
Mercury	67203-07-10 01:41 G	26266641.48	26266641.57	26266641.66	0.2690	0.1804
Mercury	67206-01-07 18:29 G	26267554.14	26267554.27	26267554.41	0.2641	0.0557
Mercury	67210-07-02 19:12 G	26269191.21	26269191.30	26269191.39	0.2693	0.1755
Mercury	67219-01-10 20:10 G	26272305.27	26272305.34	26272305.41	0.2642	0.2284
Venus	67219-07-09 19:27 G	26272485.19	26272485.31	26272485.43	0.2690	0.1756
Mercury	67223-07-05 15:22 G	26273942.02	26273942.14	26273942.25	0.2692	0.0461
Mercury	67226-01-02 22:34 G	26274854.39	26274854.44	26274854.49	0.2639	0.2420
Venus	67227-07-07 08:53 G	26275404.76	26275404.87	26275404.99	0.2692	0.1860
Mercury	67236-07-07 11:03 G	26278692.85	26278692.96	26278693.08	0.2691	0.0809
Mercury	67239-01-05 23:17 G	26279605.34	26279605.47	26279605.60	0.2640	0.0812

Mercury	67249-07-10 06:43 G	26283443.71	26283443.78	26283443.86	0.2690	0.2036
Mercury	67252-01-09 00:29 G	26284356.39	26284356.52	26284356.65	0.2641	0.0870
Mercury	67256-07-03 00:29 G	26285993.42	26285993.52	26285993.61	0.2693	0.1511
Mercury	67265-01-11 02:10 G	26289107.57	26289107.59	26289107.60	0.2642	0.2616
Mercury	67269-07-05 20:24 G	26290744.23	26290744.35	26290744.47	0.2692	0.0215
Mercury	67272-01-04 04:19 G	26291656.60	26291656.68	26291656.76	0.2639	0.2125
Mercury	67282-07-08 16:19 G	26295495.07	26295495.18	26295495.28	0.2691	0.1049
Mercury	67285-01-06 05:03 G	26296407.58	26296407.71	26296407.85	0.2640	0.0505
Mercury	67289-07-01 09:22 G	26298044.86	26298044.89	26298044.92	0.2694	0.2586
Mercury	67295-07-11 11:46 G	26300245.93	26300245.99	26300246.05	0.2690	0.2263
Mercury	67298-01-09 06:15 G	26301158.64	26301158.76	26301158.89	0.2641	0.1183
Mercury	67302-07-05 05:31 G	26302795.62	26302795.73	26302795.83	0.2693	0.1262
Mercury	67315-07-08 01:27 G	26307546.44	26307546.56	26307546.68	0.2692	0.0049
Mercury	67318-01-05 10:05 G	26308458.82	26308458.92	26308459.02	0.2639	0.1828
Mercury	67328-07-09 21:22 G	26312297.28	26312297.39	26312297.49	0.2691	0.1277
Mercury	67331-01-08 10:48 G	26313209.81	26313209.95	26313210.09	0.2640	0.0205
Venus	67333-01-10 00:00 G	26313942.34	26313942.50	26313942.66	0.2641	0.0059
Mercury	67335-07-03 14:24 G	26314847.04	26314847.10	26314847.16	0.2694	0.2337
Mercury	67341-07-12 16:48 G	26317048.16	26317048.20	26317048.24	0.2690	0.2493
Mercury	67344-01-11 12:15 G	26317960.89	26317961.01	26317961.12	0.2641	0.1507
Mercury	67348-07-05 10:34 G	26319597.83	26319597.94	26319598.05	0.2693	0.1022
Mercury	67361-07-08 06:43 G	26324348.66	26324348.78	26324348.89	0.2692	0.0278
Mercury	67364-01-06 15:51 G	26325261.05	26325261.16	26325261.27	0.2639	0.1524
Mercury	67374-07-11 02:24 G	26329099.50	26329099.60	26329099.69	0.2691	0.1511
Mercury	67377-01-08 16:48 G	26330012.06	26330012.20	26330012.34	0.2640	0.0136
Mercury	67381-07-03 19:41 G	26331649.24	26331649.32	26331649.39	0.2694	0.2086
Mercury	67390-01-11 18:00 G	26334763.15	26334763.25	26334763.35	0.2641	0.1821
Mercury	67394-07-06 15:51 G	26336400.04	26336400.16	26336400.27	0.2693	0.0778
Mercury	67407-07-10 11:46 G	26341150.87	26341150.99	26341151.10	0.2692	0.0503
Mercury	67410-01-07 21:36 G	26342063.28	26342063.40	26342063.52	0.2639	0.1223

Mercury	67420-07-12 07:27 G	26345901.72	26345901.81	26345901.90	0.2691	0.1739
Mercury	67423-01-10 22:34 G	26346814.30	26346814.44	26346814.58	0.2641	0.0432
Mercury	67427-07-06 00:43 G	26348451.45	26348451.53	26348451.62	0.2694	0.1837
Mercury	67436-01-14 00:00 G	26351565.42	26351565.50	26351565.58	0.2642	0.2150
Mercury	67440-07-07 20:53 G	26353202.25	26353202.37	26353202.49	0.2693	0.0531
Mercury	67443-01-06 02:53 G	26354114.58	26354114.62	26354114.65	0.2638	0.2516
Mercury	67453-07-10 16:48 G	26357953.09	26357953.20	26357953.31	0.2692	0.0739
Mercury	67456-01-09 03:22 G	26358865.51	26358865.64	26358865.77	0.2639	0.0917
Venus	67462-07-11 19:12 G	26361241.18	26361241.30	26361241.43	0.2691	0.1730
Mercury	67466-07-13 12:29 G	26362703.94	26362704.02	26362704.10	0.2691	0.1970
Mercury	67469-01-11 04:34 G	26363616.55	26363616.69	26363616.82	0.2641	0.0750
Venus	67470-07-09 08:39 G	26364160.74	26364160.86	26364160.97	0.2692	0.1891
Mercury	67473-07-06 06:00 G	26365253.65	26365253.75	26365253.84	0.2694	0.1588
Mercury	67482-01-14 06:00 G	26368367.70	26368367.75	26368367.79	0.2642	0.2474
Mercury	67486-07-09 01:55 G	26370004.47	26370004.58	26370004.70	0.2693	0.0306
Mercury	67489-01-06 08:24 G	26370916.78	26370916.85	26370916.93	0.2638	0.2221
Mercury	67499-07-11 21:51 G	26374755.30	26374755.41	26374755.52	0.2692	0.0977
Mercury	67502-01-10 09:07 G	26375667.75	26375667.88	26375668.02	0.2640	0.0616
Mercury	67506-07-05 14:53 G	26377305.10	26377305.12	26377305.13	0.2695	0.2675
Mercury	67512-07-14 17:31 G	26379506.17	26379506.23	26379506.30	0.2691	0.2202
Mercury	67515-01-13 10:19 G	26380418.80	26380418.93	26380419.06	0.2641	0.1064
Mercury	67519-07-08 11:03 G	26382055.86	26382055.96	26382056.07	0.2694	0.1341
Mercury	67532-07-10 07:12 G	26386806.68	26386806.80	26386806.92	0.2693	0.0046
Mercury	67535-01-08 14:10 G	26387719.00	26387719.09	26387719.19	0.2638	0.1925
Mercury	67545-07-13 02:53 G	26391557.52	26391557.62	26391557.73	0.2691	0.1216
Mercury	67548-01-11 15:07 G	26392469.99	26392470.13	26392470.26	0.2640	0.0313
Mercury	67552-07-05 19:55 G	26394107.28	26394107.33	26394107.38	0.2694	0.2418
Mercury	67558-07-15 22:34 G	26396308.39	26396308.44	26396308.49	0.2690	0.2430
Mercury	67561-01-13 16:05 G	26397221.05	26397221.17	26397221.29	0.2641	0.1379
Mercury	67565-07-08 16:19 G	26398858.07	26398858.18	26398858.29	0.2693	0.1097

Venus	67576-01-13 02:53 G	26402698.46	26402698.62	26402698.78	0.2640	0.0253
Mercury	67578-07-11 12:15 G	26403608.89	26403609.01	26403609.13	0.2692	0.0195
Mercury	67581-01-08 19:55 G	26404521.22	26404521.33	26404521.44	0.2639	0.1629
Mercury	67591-07-14 08:10 G	26408359.74	26408359.84	26408359.93	0.2691	0.1446
Mercury	67594-01-11 20:53 G	26409272.23	26409272.37	26409272.51	0.2640	0.0034
Mercury	67598-07-07 01:12 G	26410909.48	26410909.55	26410909.62	0.2694	0.2169
Mercury	67604-07-16 03:36 G	26413110.64	26413110.65	26413110.67	0.2690	0.2662
Mercury	67607-01-14 22:05 G	26414023.31	26414023.42	26414023.53	0.2641	0.1700
Mercury	67611-07-09 21:22 G	26415660.28	26415660.39	26415660.51	0.2693	0.0848
Mercury	67624-07-11 17:17 G	26420411.11	26420411.22	26420411.34	0.2692	0.0441
Mercury	67627-01-10 01:41 G	26421323.45	26421323.57	26421323.69	0.2639	0.1328
Mercury	67637-07-14 13:12 G	26425161.96	26425162.05	26425162.14	0.2691	0.1679
Mercury	67640-01-13 02:39 G	26426074.47	26426074.61	26426074.75	0.2640	0.0312
Mercury	67644-07-07 06:15 G	26427711.68	26427711.76	26427711.85	0.2694	0.1919
Mercury	67653-01-15 03:51 G	26430825.57	26430825.66	26430825.75	0.2641	0.2013
Mercury	67657-07-10 02:39 G	26432462.49	26432462.61	26432462.72	0.2693	0.0615
Mercury	67660-01-08 06:58 G	26433374.78	26433374.79	26433374.81	0.2638	0.2607
Mercury	67670-07-12 22:34 G	26437213.32	26437213.44	26437213.55	0.2692	0.0675
Mercury	67673-01-10 07:27 G	26438125.68	26438125.81	26438125.94	0.2639	0.1028
Mercury	67683-07-15 18:15 G	26441964.18	26441964.26	26441964.34	0.2691	0.1910
Mercury	67686-01-13 08:24 G	26442876.71	26442876.85	26442876.99	0.2640	0.0621
Mercury	67690-07-08 11:31 G	26444513.88	26444513.98	26444514.07	0.2694	0.1670
Mercury	67699-01-16 09:51 G	26447627.84	26447627.91	26447627.97	0.2641	0.2338
Mercury	67703-07-12 07:41 G	26449264.70	26449264.82	26449264.94	0.2693	0.0364
Venus	67705-07-13 18:58 G	26449997.17	26449997.29	26449997.41	0.2692	0.1706
Mercury	67706-01-09 12:43 G	26450176.97	26450177.03	26450177.10	0.2638	0.2309
Venus	67713-07-11 08:24 G	26452916.74	26452916.85	26452916.96	0.2693	0.1912
Mercury	67716-07-14 03:36 G	26454015.54	26454015.65	26454015.76	0.2692	0.0908
Mercury	67719-01-12 13:27 G	26454927.92	26454928.06	26454928.19	0.2639	0.0720
Mercury	67729-07-16 23:17 G	26458766.40	26458766.47	26458766.54	0.2691	0.2141

Mercury	67732-01-15 14:10 G	26459678.96	26459679.09	26459679.23	0.2640	0.0939
Mercury	67736-07-09 16:34 G	26461316.09	26461316.19	26461316.30	0.2694	0.1423
Mercury	67749-07-12 12:43 G	26466066.91	26466067.03	26466067.15	0.2693	0.0124
Mercury	67752-01-10 18:29 G	26466979.18	26466979.27	26466979.36	0.2638	0.2018
Mercury	67762-07-15 08:39 G	26470817.75	26470817.86	26470817.97	0.2692	0.1143
Mercury	67765-01-12 19:12 G	26471730.16	26471730.30	26471730.44	0.2639	0.0413
Mercury	67769-07-08 01:27 G	26473367.52	26473367.56	26473367.60	0.2695	0.2504
Mercury	67775-07-18 04:19 G	26475568.63	26475568.68	26475568.74	0.2691	0.2371
Mercury	67778-01-15 20:10 G	26476481.22	26476481.34	26476481.46	0.2640	0.1255
Mercury	67782-07-10 21:51 G	26478118.30	26478118.41	26478118.52	0.2694	0.1170
Mercury	67795-07-13 18:00 G	26482869.13	26482869.25	26482869.36	0.2693	0.0153
Mercury	67798-01-11 00:15 G	26483781.41	26483781.51	26483781.62	0.2638	0.1719
Mercury	67808-07-16 13:41 G	26487619.97	26487620.07	26487620.17	0.2692	0.1381
Mercury	67811-01-15 00:58 G	26488532.40	26488532.54	26488532.68	0.2639	0.0110
Mercury	67815-07-10 06:43 G	26490169.71	26490169.78	26490169.84	0.2695	0.2249
Venus	67819-01-15 05:46 G	26491454.58	26491454.74	26491454.89	0.2639	0.0491
Mercury	67821-07-19 09:22 G	26492370.87	26492370.89	26492370.92	0.2691	0.2600
Mercury	67824-01-18 01:55 G	26493283.47	26493283.58	26493283.69	0.2641	0.1569
Venus	67827-01-12 22:34 G	26494374.40	26494374.44	26494374.47	0.2638	0.2567
Mercury	67828-07-12 02:53 G	26494920.51	26494920.62	26494920.74	0.2694	0.0928
Mercury	67841-07-14 23:03 G	26499671.34	26499671.46	26499671.58	0.2693	0.0364
Mercury	67844-01-13 06:00 G	26500583.63	26500583.75	26500583.87	0.2638	0.1424
Mercury	67854-07-17 18:58 G	26504422.19	26504422.29	26504422.38	0.2692	0.1617
Mercury	67857-01-15 06:43 G	26505334.64	26505334.78	26505334.92	0.2640	0.0201
Mercury	67861-07-10 11:46 G	26506971.91	26506971.99	26506972.07	0.2695	0.2002
Mercury	67870-01-18 07:55 G	26510085.73	26510085.83	26510085.92	0.2641	0.1890
Mercury	67874-07-13 08:10 G	26511722.72	26511722.84	26511722.95	0.2694	0.0684
Mercury	67887-07-16 04:05 G	26516473.56	26516473.67	26516473.79	0.2693	0.0605
Mercury	67890-01-13 11:46 G	26517385.86	26517385.99	26517386.11	0.2638	0.1125
Mercury	67900-07-19 00:00 G	26521224.41	26521224.50	26521224.58	0.2691	0.1849

Mercury	67903-01-17 12:29 G	26522136.88	26522137.02	26522137.16	0.2640	0.0507
Mercury	67907-07-12 17:03 G	26523774.12	26523774.21	26523774.30	0.2695	0.1747
Mercury	67916-01-20 13:41 G	26526887.99	26526888.07	26526888.15	0.2641	0.2204
Mercury	67920-07-14 13:12 G	26528524.93	26528525.05	26528525.17	0.2693	0.0437
Mercury	67923-01-12 17:03 G	26529437.16	26529437.21	26529437.26	0.2637	0.2407
Mercury	67933-07-17 09:07 G	26533275.77	26533275.88	26533276.00	0.2692	0.0846
Mercury	67936-01-15 17:31 G	26534188.09	26534188.23	26534188.36	0.2639	0.0831
Mercury	67946-07-20 05:03 G	26538026.64	26538026.71	26538026.78	0.2691	0.2079
Venus	67948-07-15 18:43 G	26538753.16	26538753.28	26538753.41	0.2693	0.1700
Mercury	67949-01-17 18:15 G	26538939.13	26538939.26	26538939.40	0.2640	0.0819
Mercury	67953-07-12 22:05 G	26540576.33	26540576.42	26540576.52	0.2694	0.1504
Venus	67956-07-13 07:55 G	26541672.72	26541672.83	26541672.94	0.2694	0.1934
Mercury	67962-01-20 19:41 G	26543690.28	26543690.32	26543690.35	0.2641	0.2529
Mercury	67966-07-15 18:29 G	26545327.15	26545327.27	26545327.39	0.2693	0.0209
Mercury	67969-01-12 22:48 G	26546239.37	26546239.45	26546239.53	0.2638	0.2110
Mercury	67979-07-18 14:24 G	26550077.99	26550078.10	26550078.21	0.2692	0.1079
Mercury	67982-01-15 23:17 G	26550990.33	26550990.47	26550990.60	0.2639	0.0528
Mercury	67986-07-11 06:58 G	26552627.76	26552627.79	26552627.82	0.2695	0.2590
Mercury	67992-07-20 10:05 G	26554828.86	26554828.92	26554828.98	0.2691	0.2310
Mercury	67995-01-19 00:00 G	26555741.38	26555741.50	26555741.63	0.2640	0.1127
Mercury	67999-07-14 03:22 G	26557378.53	26557378.64	26557378.74	0.2694	0.1252

69TH MILLENNIUM CE

This is a list of transits visible from Earth in the 69th millennium CE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
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TRANSIT

TIME

Mercury	68012-07-15 23:31 G	26562129.36	26562129.48	26562129.60	0.2693	0.0052
Mercury	68015-01-14 04:34 G	26563041.59	26563041.69	26563041.79	0.2638	0.1819
Mercury	68025-07-18 19:27 G	26566880.21	26566880.31	26566880.41	0.2692	0.1317
Mercury	68028-01-17 05:03 G	26567792.57	26567792.71	26567792.85	0.2639	0.0229
Mercury	68032-07-11 12:15 G	26569429.95	26569430.01	26569430.06	0.2695	0.2338
Mercury	68038-07-21 15:07 G	26571631.10	26571631.13	26571631.17	0.2691	0.2541
Mercury	68041-01-19 06:00 G	26572543.63	26572543.75	26572543.87	0.2640	0.1444
Mercury	68045-07-14 08:24 G	26574180.74	26574180.85	26574180.96	0.2694	0.1007
Mercury	68058-07-17 04:34 G	26578931.58	26578931.69	26578931.81	0.2693	0.0305
Mercury	68061-01-14 10:19 G	26579843.81	26579843.93	26579844.04	0.2638	0.1520
Venus	68062-01-16 08:39 G	26580210.71	26580210.86	26580211.01	0.2638	0.0735
Venus	68070-01-14 01:27 G	26583130.48	26583130.56	26583130.63	0.2637	0.2318
Mercury	68071-07-20 00:29 G	26583682.43	26583682.52	26583682.62	0.2692	0.1549
Mercury	68074-01-17 10:48 G	26584594.81	26584594.95	26584595.09	0.2639	0.0089
Mercury	68078-07-12 17:17 G	26586232.15	26586232.22	26586232.30	0.2695	0.2080
Mercury	68087-01-20 11:46 G	26589345.89	26589345.99	26589346.10	0.2640	0.1761
Mercury	68091-07-15 13:41 G	26590982.95	26590983.07	26590983.18	0.2694	0.0756
Mercury	68104-07-18 09:51 G	26595733.79	26595733.91	26595734.02	0.2693	0.0538
Mercury	68107-01-16 15:51 G	26596646.04	26596646.16	26596646.28	0.2638	0.1229
Mercury	68117-07-21 05:31 G	26600484.65	26600484.73	26600484.82	0.2692	0.1785
Mercury	68120-01-19 16:34 G	26601397.05	26601397.19	26601397.33	0.2639	0.0400
Mercury	68124-07-13 22:34 G	26603034.35	26603034.44	26603034.52	0.2695	0.1833
Mercury	68133-01-21 17:46 G	26606148.15	26606148.24	26606148.32	0.2640	0.2082
Mercury	68137-07-16 18:58 G	26607785.17	26607785.29	26607785.40	0.2694	0.0517
Mercury	68140-01-14 21:22 G	26608697.35	26608697.39	26608697.43	0.2637	0.2493
Mercury	68150-07-19 14:53 G	26612536.01	26612536.12	26612536.23	0.2693	0.0775
Mercury	68153-01-16 21:36 G	26613448.27	26613448.40	26613448.53	0.2638	0.0928
Mercury	68163-07-22 10:48 G	26617286.87	26617286.95	26617287.02	0.2692	0.2019

Mercury	68166-01-19 22:19 G	26618199.30	26618199.43	26618199.57	0.2639	0.0704
Mercury	68170-07-15 03:36 G	26619836.56	26619836.65	26619836.75	0.2695	0.1580
Mercury	68179-01-22 23:31 G	26622950.42	26622950.48	26622950.54	0.2641	0.2399
Mercury	68183-07-18 00:00 G	26624587.38	26624587.50	26624587.62	0.2694	0.0269
Mercury	68186-01-15 03:07 G	26625499.55	26625499.63	26625499.70	0.2637	0.2208
Venus	68191-07-17 18:15 G	26627509.14	26627509.26	26627509.39	0.2694	0.1644
Mercury	68196-07-19 19:55 G	26629338.22	26629338.33	26629338.44	0.2693	0.1015
Mercury	68199-01-18 03:22 G	26630250.51	26630250.64	26630250.78	0.2638	0.0631
Venus	68199-07-15 07:41 G	26630428.71	26630428.82	26630428.93	0.2695	0.1968
Mercury	68203-07-14 12:15 G	26631888.01	26631888.01	26631888.03	0.2696	0.2679
Mercury	68209-07-23 15:51 G	26634089.10	26634089.16	26634089.22	0.2692	0.2252
Mercury	68212-01-22 04:19 G	26635001.55	26635001.68	26635001.80	0.2640	0.1017
Mercury	68216-07-16 08:53 G	26636638.76	26636638.87	26636638.97	0.2695	0.1332
Mercury	68229-07-19 05:03 G	26641389.59	26641389.71	26641389.83	0.2694	0.0065
Mercury	68232-01-17 08:39 G	26642301.77	26642301.86	26642301.96	0.2637	0.1913
Mercury	68242-07-22 00:58 G	26646140.44	26646140.54	26646140.65	0.2693	0.1252
Mercury	68245-01-19 09:07 G	26647052.74	26647052.88	26647053.02	0.2638	0.0330
Mercury	68249-07-14 17:31 G	26648690.18	26648690.23	26648690.28	0.2696	0.2422
Mercury	68255-07-24 20:53 G	26650891.33	26650891.37	26650891.41	0.2691	0.2481
Mercury	68258-01-22 10:05 G	26651803.80	26651803.92	26651804.04	0.2640	0.1324
Mercury	68262-07-17 14:10 G	26653440.98	26653441.09	26653441.20	0.2695	0.1084
Mercury	68275-07-20 10:19 G	26658191.81	26658191.93	26658192.05	0.2693	0.0237
Mercury	68278-01-17 14:24 G	26659103.99	26659104.10	26659104.21	0.2638	0.1624
Mercury	68288-07-22 06:15 G	26662942.66	26662942.76	26662942.86	0.2692	0.1486
Mercury	68291-01-20 14:53 G	26663854.98	26663855.12	26663855.26	0.2639	0.0041
Mercury	68295-07-15 22:48 G	26665492.38	26665492.45	26665492.52	0.2696	0.2169
Mercury	68304-01-24 15:51 G	26668606.05	26668606.16	26668606.27	0.2640	0.1637
Venus	68305-01-19 11:17 G	26668966.83	26668966.97	26668967.12	0.2638	0.0961
Mercury	68308-07-18 19:12 G	26670243.19	26670243.30	26670243.41	0.2695	0.0834
Venus	68313-01-17 04:05 G	26671886.58	26671886.67	26671886.77	0.2637	0.2085

Mercury	68321-07-21 15:22 G	26674994.02	26674994.14	26674994.26	0.2693	0.0464
Mercury	68324-01-19 20:10 G	26675906.22	26675906.34	26675906.46	0.2638	0.1321
Mercury	68334-07-24 11:17 G	26679744.88	26679744.97	26679745.06	0.2692	0.1719
Mercury	68337-01-21 20:39 G	26680657.22	26680657.36	26680657.50	0.2639	0.0286
Mercury	68341-07-17 04:05 G	26682294.58	26682294.67	26682294.75	0.2695	0.1914
Mercury	68350-01-24 21:36 G	26685408.31	26685408.40	26685408.49	0.2640	0.1948
Mercury	68354-07-20 00:15 G	26687045.40	26687045.51	26687045.63	0.2694	0.0593
Mercury	68357-01-17 01:41 G	26687957.55	26687957.57	26687957.60	0.2637	0.2577
Mercury	68367-07-22 20:24 G	26691796.24	26691796.35	26691796.47	0.2693	0.0702
Mercury	68370-01-20 01:55 G	26692708.45	26692708.58	26692708.71	0.2638	0.1028
Mercury	68380-07-24 16:19 G	26696547.10	26696547.18	26696547.26	0.2692	0.1957
Mercury	68383-01-23 02:24 G	26697459.47	26697459.60	26697459.74	0.2639	0.0595
Mercury	68387-07-18 09:07 G	26699096.79	26699096.88	26699096.98	0.2695	0.1663
Mercury	68396-01-26 03:36 G	26702210.58	26702210.65	26702210.72	0.2640	0.2270
Mercury	68400-07-20 05:31 G	26703847.61	26703847.73	26703847.85	0.2694	0.0342
Mercury	68403-01-18 07:27 G	26704759.74	26704759.81	26704759.87	0.2637	0.2289
Mercury	68413-07-23 01:41 G	26708598.45	26708598.57	26708598.68	0.2693	0.0948
Mercury	68416-01-21 07:41 G	26709510.69	26709510.82	26709510.95	0.2638	0.0726
Mercury	68426-07-25 21:22 G	26713349.33	26713349.39	26713349.46	0.2692	0.2188
Mercury	68429-01-23 08:24 G	26714261.71	26714261.85	26714261.98	0.2639	0.0901
Mercury	68433-07-18 14:24 G	26715899.00	26715899.10	26715899.20	0.2695	0.1408
Venus	68434-07-19 18:00 G	26716265.13	26716265.25	26716265.38	0.2695	0.1644
Mercury	68442-01-26 09:22 G	26719012.86	26719012.89	26719012.91	0.2640	0.2586
Venus	68442-07-17 07:12 G	26719184.70	26719184.80	26719184.91	0.2696	0.1998
Mercury	68446-07-21 10:34 G	26720649.82	26720649.94	26720650.06	0.2694	0.0120
Mercury	68449-01-18 12:58 G	26721561.96	26721562.04	26721562.13	0.2637	0.2006
Mercury	68459-07-24 06:43 G	26725400.67	26725400.78	26725400.89	0.2693	0.1181
Mercury	68462-01-21 13:27 G	26726312.92	26726313.06	26726313.19	0.2638	0.0432
Mercury	68466-07-16 23:03 G	26727950.42	26727950.46	26727950.50	0.2696	0.2508
Mercury	68472-07-26 02:39 G	26730151.56	26730151.61	26730151.66	0.2692	0.2422

Mercury	68475-01-24 14:10 G	26731063.96	26731064.09	26731064.21	0.2639	0.1211
Mercury	68479-07-19 19:27 G	26732701.21	26732701.31	26732701.42	0.2695	0.1165
Mercury	68492-07-21 15:51 G	26737452.04	26737452.16	26737452.28	0.2694	0.0156
Mercury	68495-01-19 18:43 G	26738364.18	26738364.28	26738364.39	0.2637	0.1710
Mercury	68505-07-25 11:46 G	26742202.89	26742202.99	26742203.09	0.2693	0.1424
Mercury	68508-01-23 19:12 G	26743115.16	26743115.30	26743115.44	0.2638	0.0136
Mercury	68512-07-18 04:19 G	26744752.61	26744752.68	26744752.74	0.2696	0.2254
Mercury	68518-07-28 07:41 G	26746953.80	26746953.82	26746953.84	0.2692	0.2652
Mercury	68521-01-25 19:55 G	26747866.21	26747866.33	26747866.44	0.2639	0.1515
Mercury	68525-07-21 00:43 G	26749503.41	26749503.53	26749503.64	0.2695	0.0912
Mercury	68538-07-23 20:53 G	26754254.25	26754254.37	26754254.49	0.2694	0.0390
Mercury	68541-01-21 00:29 G	26755166.40	26755166.52	26755166.63	0.2637	0.1423
Venus	68548-01-21 14:24 G	26757722.96	26757723.10	26757723.24	0.2637	0.1218
Mercury	68551-07-26 17:03 G	26759005.11	26759005.21	26759005.30	0.2693	0.1659
Mercury	68554-01-24 00:43 G	26759917.40	26759917.53	26759917.67	0.2638	0.0189
Venus	68556-01-19 07:12 G	26760642.69	26760642.80	26760642.91	0.2636	0.1828
Mercury	68558-07-19 09:22 G	26761554.81	26761554.89	26761554.97	0.2696	0.2000
Mercury	68567-01-27 01:41 G	26764668.47	26764668.57	26764668.67	0.2639	0.1831
Mercury	68571-07-22 05:46 G	26766305.63	26766305.74	26766305.86	0.2695	0.0670
Mercury	68584-07-24 02:10 G	26771056.47	26771056.59	26771056.70	0.2694	0.0641
Mercury	68587-01-22 06:15 G	26771968.63	26771968.76	26771968.88	0.2637	0.1126
Mercury	68597-07-26 22:05 G	26775807.33	26775807.42	26775807.50	0.2693	0.1891
Mercury	68600-01-25 06:29 G	26776719.64	26776719.77	26776719.91	0.2638	0.0480
Mercury	68604-07-20 14:39 G	26778357.02	26778357.11	26778357.20	0.2696	0.1746
Mercury	68613-01-28 07:27 G	26781470.73	26781470.81	26781470.89	0.2640	0.2137
Mercury	68617-07-23 11:03 G	26783107.84	26783107.96	26783108.08	0.2695	0.0419
Mercury	68620-01-21 11:46 G	26784019.94	26784019.99	26784020.05	0.2636	0.2376
Mercury	68630-07-26 07:12 G	26787858.69	26787858.80	26787858.91	0.2694	0.0872
Mercury	68633-01-23 11:46 G	26788770.86	26788770.99	26788771.12	0.2638	0.0835
Mercury	68643-07-29 03:07 G	26792609.56	26792609.63	26792609.70	0.2693	0.2127

Mercury	68646-01-26 12:29 G	26793521.88	26793522.02	26793522.15	0.2639	0.0787
Mercury	68650-07-21 19:41 G	26795159.22	26795159.32	26795159.42	0.2696	0.1497
Mercury	68659-01-29 13:12 G	26798273.01	26798273.05	26798273.10	0.2640	0.2457
Mercury	68663-07-24 16:05 G	26799910.05	26799910.17	26799910.29	0.2695	0.0189
Mercury	68666-01-21 17:31 G	26800822.15	26800822.23	26800822.31	0.2637	0.2089
Mercury	68676-07-26 12:15 G	26804660.91	26804661.01	26804661.12	0.2693	0.1119
Venus	68677-07-21 17:31 G	26805021.10	26805021.23	26805021.36	0.2696	0.1574
Mercury	68679-01-24 17:31 G	26805573.10	26805573.23	26805573.37	0.2638	0.0534
Mercury	68683-07-20 04:19 G	26807210.65	26807210.68	26807210.71	0.2696	0.2599
Venus	68685-07-19 06:43 G	26807940.68	26807940.78	26807940.88	0.2697	0.2042
Mercury	68689-07-29 08:10 G	26809411.79	26809411.84	26809411.90	0.2692	0.2358
Mercury	68692-01-27 18:15 G	26810324.13	26810324.26	26810324.38	0.2639	0.1088
Mercury	68696-07-22 00:58 G	26811961.43	26811961.54	26811961.65	0.2695	0.1240
Mercury	68709-07-25 21:22 G	26816712.27	26816712.39	26816712.51	0.2695	0.0084
Mercury	68712-01-23 23:03 G	26817624.36	26817624.46	26817624.56	0.2637	0.1802
Mercury	68722-07-28 17:31 G	26821463.12	26821463.23	26821463.33	0.2693	0.1354
Mercury	68725-01-25 23:17 G	26822375.33	26822375.47	26822375.61	0.2638	0.0236
Mercury	68729-07-21 09:36 G	26824012.84	26824012.90	26824012.96	0.2696	0.2340
Mercury	68735-07-31 13:12 G	26826214.03	26826214.05	26826214.08	0.2692	0.2595
Mercury	68738-01-29 00:00 G	26827126.38	26827126.50	26827126.62	0.2639	0.1404
Mercury	68742-07-24 06:15 G	26828763.64	26828763.76	26828763.87	0.2695	0.0994
Mercury	68755-07-27 02:24 G	26833514.49	26833514.60	26833514.72	0.2694	0.0337
Mercury	68758-01-24 04:48 G	26834426.59	26834426.70	26834426.81	0.2637	0.1509
Mercury	68768-07-28 22:34 G	26838265.34	26838265.44	26838265.53	0.2693	0.1592
Mercury	68771-01-27 05:03 G	26839177.57	26839177.71	26839177.85	0.2638	0.0072
Mercury	68775-07-22 14:53 G	26840815.04	26840815.12	26840815.19	0.2696	0.2085
Mercury	68784-01-30 05:46 G	26843928.63	26843928.74	26843928.84	0.2639	0.1708
Mercury	68788-07-24 11:17 G	26845565.86	26845565.97	26845566.09	0.2695	0.0742
Venus	68791-01-23 17:03 G	26846479.08	26846479.21	26846479.35	0.2636	0.1441
Venus	68799-01-21 09:51 G	26849398.79	26849398.91	26849399.04	0.2636	0.1589

Mercury	68801-07-27 07:41 G	26850316.70	26850316.82	26850316.94	0.2694	0.0565
Mercury	68804-01-25 10:19 G	26851228.81	26851228.93	26851229.06	0.2637	0.1226
Mercury	68814-07-30 03:36 G	26855067.57	26855067.65	26855067.74	0.2693	0.1829
Mercury	68817-01-27 10:48 G	26855979.81	26855979.95	26855980.09	0.2638	0.0371
Mercury	68821-07-22 19:55 G	26857617.25	26857617.33	26857617.42	0.2696	0.1831
Mercury	68830-01-30 11:31 G	26860730.89	26860730.98	26860731.07	0.2639	0.2025
Mercury	68834-07-25 16:34 G	26862368.07	26862368.19	26862368.31	0.2695	0.0493
Mercury	68837-01-22 16:05 G	26863280.13	26863280.17	26863280.22	0.2636	0.2467
Mercury	68847-07-28 12:43 G	26867118.92	26867119.03	26867119.15	0.2694	0.0808
Mercury	68850-01-25 16:05 G	26868031.04	26868031.17	26868031.30	0.2637	0.0928
Mercury	68860-07-30 08:39 G	26871869.79	26871869.86	26871869.94	0.2693	0.2066
Mercury	68863-01-28 16:34 G	26872782.06	26872782.19	26872782.32	0.2638	0.0670
Mercury	68867-07-24 01:12 G	26874419.45	26874419.55	26874419.65	0.2696	0.1576
Mercury	68876-01-31 17:17 G	26877533.16	26877533.22	26877533.29	0.2639	0.2333
Mercury	68880-07-25 21:36 G	26879170.28	26879170.40	26879170.52	0.2695	0.0255
Mercury	68883-01-23 21:51 G	26880082.33	26880082.41	26880082.48	0.2636	0.2180
Mercury	68893-07-28 17:46 G	26883921.14	26883921.24	26883921.35	0.2694	0.1050
Mercury	68896-01-26 21:51 G	26884833.27	26884833.41	26884833.54	0.2637	0.0639
Mercury	68900-07-22 09:36 G	26886470.90	26886470.90	26886470.91	0.2697	0.2691
Mercury	68906-08-01 13:55 G	26888672.02	26888672.08	26888672.14	0.2693	0.2300
Mercury	68909-01-29 22:19 G	26889584.30	26889584.43	26889584.56	0.2638	0.0976
Mercury	68913-07-25 06:29 G	26891221.66	26891221.77	26891221.87	0.2696	0.1325
Venus	68920-07-23 17:17 G	26893777.09	26893777.22	26893777.34	0.2696	0.1559
Mercury	68926-07-28 02:53 G	26895972.50	26895972.62	26895972.74	0.2695	0.0017
Venus	68928-07-21 06:29 G	26896696.67	26896696.77	26896696.87	0.2697	0.2073
Mercury	68929-01-25 03:36 G	26896884.55	26896884.65	26896884.74	0.2636	0.1892
Mercury	68939-07-30 23:03 G	26900723.35	26900723.46	26900723.56	0.2694	0.1289
Mercury	68942-01-28 03:36 G	26901635.51	26901635.65	26901635.79	0.2637	0.0334
Mercury	68946-07-23 14:53 G	26903273.07	26903273.12	26903273.17	0.2697	0.2429
Mercury	68952-08-01 18:58 G	26905474.25	26905474.29	26905474.33	0.2693	0.2531

Mercury	68955-01-31 04:05 G	26906386.55	26906386.67	26906386.79	0.2638	0.1280
Mercury	68959-07-26 11:31 G	26908023.87	26908023.98	26908024.10	0.2696	0.1075
Mercury	68972-07-28 07:55 G	26912774.71	26912774.83	26912774.95	0.2695	0.0253
Mercury	68975-01-26 09:07 G	26913686.77	26913686.88	26913686.99	0.2636	0.1602
Mercury	68985-07-31 04:05 G	26917525.57	26917525.67	26917525.77	0.2694	0.1523
Mercury	68988-01-29 09:22 G	26918437.75	26918437.89	26918438.03	0.2638	0.0044
Mercury	68992-07-23 20:10 G	26920075.27	26920075.34	26920075.41	0.2697	0.2170

70TH MILLENNIUM CE

This is a list of transits visible from Earth in the 70th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	69001-02-01 09:51 G	26923188.80	26923188.91	26923189.02	0.2639	0.1595		
Mercury	69005-07-27 16:48 G	26924826.09	26924826.20	26924826.32	0.2696	0.0819		
Mercury	69018-07-30 13:12 G	26929576.93	26929577.05	26929577.17	0.2695	0.0495		
Mercury	69021-01-27 14:53 G	26930489.00	26930489.12	26930489.24	0.2637	0.1309		
Mercury	69031-08-02 09:22 G	26934327.80	26934327.89	26934327.97	0.2694	0.1767		
Venus	69034-01-25 20:10 G	26935235.22	26935235.34	26935235.46	0.2636	0.1705		
Mercury	69034-01-30 15:07 G	26935239.99	26935240.13	26935240.26	0.2638	0.0272		
Mercury	69038-07-26 01:27 G	26936877.48	26936877.56	26936877.65	0.2696	0.1913		
Venus	69042-01-23 12:58 G	26938154.91	26938155.04	26938155.18	0.2635	0.1327		
Mercury	69047-02-02 15:36 G	26939991.06	26939991.15	26939991.25	0.2639	0.1902		
Mercury	69051-07-28 22:05 G	26941628.30	26941628.42	26941628.53	0.2695	0.0572		
Mercury	69054-01-25 20:39 G	26942540.33	26942540.36	26942540.39	0.2636	0.2543		

Mercury	69064-07-30 18:15 G	26946379.15	26946379.26	26946379.38	0.2695	0.0737
Mercury	69067-01-28 20:24 G	26947291.23	26947291.35	26947291.48	0.2637	0.1023
Mercury	69077-08-02 14:24 G	26951130.02	26951130.10	26951130.18	0.2694	0.2002
Mercury	69080-01-31 20:39 G	26952042.23	26952042.36	26952042.50	0.2638	0.0571
Mercury	69084-07-26 06:43 G	26953679.68	26953679.78	26953679.87	0.2696	0.1660
Mercury	69093-02-02 21:22 G	26956793.32	26956793.39	26956793.47	0.2639	0.2222
Mercury	69097-07-29 03:07 G	26958430.51	26958430.63	26958430.75	0.2695	0.0324
Mercury	69100-01-27 02:10 G	26959342.53	26959342.59	26959342.66	0.2636	0.2261
Mercury	69110-08-01 23:31 G	26963181.37	26963181.48	26963181.59	0.2694	0.0982
Mercury	69113-01-30 02:10 G	26964093.46	26964093.59	26964093.72	0.2637	0.0726
Mercury	69123-08-04 19:27 G	26967932.25	26967932.31	26967932.38	0.2693	0.2240
Mercury	69126-02-02 02:24 G	26968844.47	26968844.60	26968844.73	0.2638	0.0873
Mercury	69130-07-28 11:46 G	26970481.89	26970481.99	26970482.10	0.2696	0.1407
Mercury	69139-02-05 03:07 G	26973595.60	26973595.63	26973595.67	0.2639	0.2526
Mercury	69143-07-31 08:24 G	26975232.73	26975232.85	26975232.97	0.2695	0.0108
Mercury	69146-01-28 07:55 G	26976144.74	26976144.83	26976144.92	0.2636	0.1979
Mercury	69156-08-02 04:34 G	26979983.58	26979983.69	26979983.80	0.2694	0.1220
Mercury	69159-01-31 07:55 G	26980895.69	26980895.83	26980895.96	0.2637	0.0437
Venus	69163-07-26 16:34 G	26982533.06	26982533.19	26982533.32	0.2697	0.1511
Mercury	69163-07-26 20:24 G	26982533.31	26982533.35	26982533.39	0.2697	0.2518 *
Mercury	69169-08-05 00:43 G	26984734.48	26984734.53	26984734.57	0.2693	0.2476
Venus	69171-07-24 05:46 G	26985452.65	26985452.74	26985452.84	0.2698	0.2118
Mercury	69172-02-03 08:10 G	26985646.72	26985646.84	26985646.97	0.2638	0.1180
Mercury	69176-07-28 17:03 G	26987284.10	26987284.21	26987284.32	0.2696	0.1150
Mercury	69189-07-31 13:27 G	26992034.94	26992035.06	26992035.18	0.2695	0.0185
Mercury	69192-01-29 13:27 G	26992946.96	26992947.06	26992947.17	0.2636	0.1692
Mercury	69202-08-03 09:51 G	26996785.81	26996785.91	26996786.01	0.2694	0.1466
Mercury	69205-01-31 13:27 G	26997697.93	26997698.06	26997698.20	0.2637	0.0163
Mercury	69209-07-27 01:41 G	26999335.50	26999335.57	26999335.63	0.2697	0.2258
Mercury	69218-02-03 13:55 G	27002448.97	27002449.08	27002449.20	0.2638	0.1478

Mercury	69222-07-29 22:19 G	27004086.31	27004086.43	27004086.54	0.2696	0.0903
Mercury	69235-08-01 18:43 G	27008837.16	27008837.28	27008837.40	0.2695	0.0425
Mercury	69238-01-29 19:12 G	27009749.18	27009749.30	27009749.41	0.2636	0.1401
Mercury	69248-08-03 14:53 G	27013588.03	27013588.12	27013588.21	0.2694	0.1702
Mercury	69251-02-01 19:12 G	27014500.16	27014500.30	27014500.44	0.2637	0.0160
Mercury	69255-07-28 06:43 G	27016137.70	27016137.78	27016137.86	0.2697	0.2002
Mercury	69264-02-04 19:41 G	27019251.22	27019251.32	27019251.43	0.2638	0.1791
Mercury	69268-07-30 03:22 G	27020888.52	27020888.64	27020888.76	0.2696	0.0650
Mercury	69271-01-28 01:12 G	27021800.54	27021800.55	27021800.56	0.2635	0.2617
Venus	69277-01-26 23:03 G	27023991.35	27023991.46	27023991.56	0.2635	0.1945
Mercury	69281-08-01 23:46 G	27025639.38	27025639.49	27025639.61	0.2695	0.0671
Mercury	69284-01-31 00:58 G	27026551.41	27026551.54	27026551.66	0.2636	0.1108
Venus	69285-01-24 15:51 G	27026911.01	27026911.16	27026911.30	0.2634	0.1079
Mercury	69294-08-04 19:55 G	27030390.25	27030390.33	27030390.41	0.2694	0.1942
Mercury	69297-02-02 00:58 G	27031302.41	27031302.54	27031302.68	0.2637	0.0467
Mercury	69301-07-29 12:00 G	27032939.91	27032940.00	27032940.09	0.2697	0.1741
Mercury	69310-02-06 01:27 G	27036053.48	27036053.56	27036053.65	0.2638	0.2095
Mercury	69314-08-01 08:39 G	27037690.74	27037690.86	27037690.98	0.2696	0.0397
Mercury	69317-01-29 06:43 G	27038602.72	27038602.78	27038602.84	0.2635	0.2340
Mercury	69327-08-04 05:03 G	27042441.59	27042441.71	27042441.82	0.2695	0.0912
Mercury	69330-02-01 06:29 G	27043353.64	27043353.77	27043353.90	0.2636	0.0818
Mercury	69340-08-06 01:12 G	27047192.48	27047192.55	27047192.61	0.2694	0.2177
Mercury	69343-02-04 06:43 G	27048104.65	27048104.78	27048104.92	0.2637	0.0771
Mercury	69347-07-30 17:17 G	27049742.12	27049742.22	27049742.32	0.2697	0.1486
Mercury	69356-02-07 07:27 G	27052855.75	27052855.81	27052855.86	0.2639	0.2413
Mercury	69360-08-01 13:55 G	27054492.96	27054493.08	27054493.20	0.2696	0.0158
Mercury	69363-01-30 12:15 G	27055404.93	27055405.01	27055405.10	0.2635	0.2058
Mercury	69373-08-04 10:05 G	27059243.82	27059243.92	27059244.03	0.2695	0.1157
Mercury	69376-02-02 12:15 G	27060155.88	27060156.01	27060156.14	0.2636	0.0523
Mercury	69380-07-28 01:41 G	27061793.54	27061793.57	27061793.60	0.2697	0.2605

Mercury	69386-08-07 06:15 G	27063994.71	27063994.76	27063994.81	0.2694	0.2414
Mercury	69389-02-04 12:29 G	27064906.89	27064907.02	27064907.15	0.2638	0.1069
Mercury	69393-07-30 22:34 G	27066544.33	27066544.44	27066544.54	0.2696	0.1234
Venus	69406-07-28 16:19 G	27071289.05	27071289.18	27071289.31	0.2698	0.1483
Mercury	69406-08-03 18:58 G	27071295.17	27071295.29	27071295.41	0.2696	0.0117
Mercury	69409-01-31 18:00 G	27072207.15	27072207.25	27072207.35	0.2636	0.1773
Venus	69414-07-26 05:31 G	27074208.64	27074208.73	27074208.83	0.2699	0.2135
Mercury	69419-08-06 15:22 G	27076046.04	27076046.14	27076046.24	0.2695	0.1400
Mercury	69422-02-03 18:00 G	27076958.11	27076958.25	27076958.38	0.2637	0.0248
Mercury	69426-07-30 06:58 G	27078595.73	27078595.79	27078595.85	0.2697	0.2346
Mercury	69432-08-08 11:17 G	27080796.96	27080796.97	27080796.99	0.2694	0.2652
Mercury	69435-02-06 18:15 G	27081709.14	27081709.26	27081709.38	0.2638	0.1374
Mercury	69439-08-02 03:36 G	27083346.54	27083346.65	27083346.77	0.2696	0.0978
Mercury	69452-08-04 00:15 G	27088097.39	27088097.51	27088097.63	0.2695	0.0353
Mercury	69455-02-01 23:31 G	27089009.37	27089009.48	27089009.60	0.2636	0.1487
Mercury	69465-08-06 20:24 G	27092848.26	27092848.35	27092848.45	0.2694	0.1640
Mercury	69468-02-04 23:31 G	27093760.35	27093760.48	27093760.62	0.2637	0.0104
Mercury	69472-07-30 12:15 G	27095397.93	27095398.01	27095398.08	0.2697	0.2083
Mercury	69481-02-07 00:00 G	27098511.39	27098511.50	27098511.60	0.2638	0.1678
Mercury	69485-08-02 08:53 G	27100148.75	27100148.87	27100148.99	0.2696	0.0723
Mercury	69498-08-05 05:17 G	27104899.61	27104899.72	27104899.84	0.2695	0.0601
Mercury	69501-02-03 05:17 G	27105811.60	27105811.72	27105811.84	0.2636	0.1202
Mercury	69511-08-09 01:27 G	27109650.48	27109650.56	27109650.65	0.2694	0.1879
Mercury	69514-02-06 05:17 G	27110562.58	27110562.72	27110562.86	0.2637	0.0365
Mercury	69518-08-01 17:17 G	27112200.14	27112200.22	27112200.31	0.2697	0.1830
Venus	69520-01-31 02:10 G	27112747.50	27112747.59	27112747.67	0.2634	0.2215
Mercury	69527-02-09 05:46 G	27115313.65	27115313.74	27115313.83	0.2638	0.1986
Venus	69528-01-28 18:58 G	27115667.14	27115667.29	27115667.44	0.2633	0.0806
Mercury	69531-08-04 14:10 G	27116950.97	27116951.09	27116951.21	0.2696	0.0471
Mercury	69534-02-01 11:17 G	27117862.92	27117862.97	27117863.02	0.2635	0.2418

Mercury	69544-08-06 10:34 G	27121701.82	27121701.94	27121702.05	0.2695	0.0845
Mercury	69547-02-04 11:03 G	27122613.83	27122613.96	27122614.08	0.2636	0.0911
Mercury	69557-08-09 06:43 G	27126452.71	27126452.78	27126452.85	0.2694	0.2118
Mercury	69560-02-07 11:03 G	27127364.82	27127364.96	27127365.09	0.2637	0.0661
Mercury	69564-08-01 22:34 G	27129002.34	27129002.44	27129002.54	0.2697	0.1568
Mercury	69573-02-09 11:31 G	27132115.91	27132115.98	27132116.04	0.2638	0.2291
Mercury	69577-08-04 19:12 G	27133753.18	27133753.30	27133753.42	0.2696	0.0229
Mercury	69580-02-02 16:48 G	27134665.13	27134665.20	27134665.28	0.2635	0.2134
Mercury	69590-08-07 15:36 G	27138504.04	27138504.15	27138504.26	0.2695	0.1089
Mercury	69593-02-04 16:34 G	27139416.06	27139416.19	27139416.32	0.2636	0.0617
Mercury	69597-07-31 06:58 G	27141053.79	27141053.79	27141053.79	0.2698	0.2694
Mercury	69603-08-10 11:46 G	27143254.94	27143254.99	27143255.05	0.2694	0.2358
Mercury	69606-02-07 16:48 G	27144167.07	27144167.20	27144167.33	0.2637	0.0964
Mercury	69610-08-03 03:51 G	27145804.55	27145804.66	27145804.77	0.2697	0.1312
Mercury	69619-02-10 17:17 G	27148918.20	27148918.22	27148918.24	0.2638	0.2604
Mercury	69623-08-06 00:29 G	27150555.40	27150555.52	27150555.64	0.2696	0.0035
Mercury	69626-02-02 22:34 G	27151467.34	27151467.44	27151467.53	0.2635	0.1848
Mercury	69636-08-07 20:53 G	27155306.26	27155306.37	27155306.47	0.2695	0.1333
Mercury	69639-02-05 22:19 G	27156218.29	27156218.43	27156218.57	0.2636	0.0320
Mercury	69643-08-01 12:15 G	27157855.96	27157856.01	27157856.06	0.2698	0.2429
Venus	69649-07-29 15:51 G	27160045.03	27160045.16	27160045.30	0.2699	0.1457
Mercury	69649-08-10 17:03 G	27160057.18	27160057.21	27160057.23	0.2694	0.2594
Mercury	69652-02-08 22:34 G	27160969.32	27160969.44	27160969.56	0.2637	0.1270
Mercury	69656-08-03 09:07 G	27162606.77	27162606.88	27162606.99	0.2697	0.1052
Venus	69657-07-27 05:03 G	27162964.62	27162964.71	27162964.81	0.2700	0.2180
Mercury	69669-08-06 05:31 G	27167357.61	27167357.73	27167357.86	0.2696	0.0298
Mercury	69672-02-04 04:05 G	27168269.56	27168269.67	27168269.78	0.2635	0.1570
Mercury	69682-08-09 01:55 G	27172108.48	27172108.58	27172108.68	0.2695	0.1575
Mercury	69685-02-06 04:05 G	27173020.53	27173020.67	27173020.80	0.2636	0.0093
Mercury	69689-08-01 17:31 G	27174658.16	27174658.23	27174658.30	0.2698	0.2171

Mercury	69698-02-09 04:19 G	27177771.57	27177771.68	27177771.79	0.2637	0.1576
Mercury	69702-08-05 14:24 G	27179408.98	27179409.10	27179409.21	0.2697	0.0801
Mercury	69715-08-08 10:48 G	27184159.83	27184159.95	27184160.07	0.2696	0.0533
Mercury	69718-02-05 09:51 G	27185071.79	27185071.91	27185072.02	0.2635	0.1281
Mercury	69728-08-10 07:12 G	27188910.71	27188910.80	27188910.88	0.2695	0.1819
Mercury	69731-02-08 09:36 G	27189822.77	27189822.90	27189823.04	0.2636	0.0271
Mercury	69735-08-03 22:48 G	27191460.36	27191460.45	27191460.53	0.2698	0.1908
Mercury	69744-02-11 09:51 G	27194573.82	27194573.91	27194574.01	0.2638	0.1878
Mercury	69748-08-05 19:27 G	27196211.19	27196211.31	27196211.43	0.2697	0.0548
Mercury	69751-02-03 15:51 G	27197123.12	27197123.16	27197123.20	0.2634	0.2493
Mercury	69761-08-08 16:05 G	27200962.05	27200962.17	27200962.28	0.2696	0.0779
Venus	69763-02-01 05:03 G	27201503.65	27201503.71	27201503.76	0.2633	0.2469
Mercury	69764-02-06 15:22 G	27201874.01	27201874.14	27201874.27	0.2636	0.0997
Venus	69771-01-29 21:51 G	27204423.26	27204423.41	27204423.57	0.2633	0.0548
Mercury	69774-08-11 12:15 G	27205712.94	27205713.01	27205713.09	0.2695	0.2062
Mercury	69777-02-08 15:22 G	27206625.00	27206625.14	27206625.27	0.2637	0.0565
Mercury	69781-08-04 04:05 G	27208262.57	27208262.67	27208262.76	0.2697	0.1654
Mercury	69790-02-11 15:51 G	27211376.08	27211376.16	27211376.23	0.2638	0.2188
Mercury	69794-08-07 00:43 G	27213013.41	27213013.53	27213013.65	0.2697	0.0295
Mercury	69797-02-03 21:22 G	27213925.32	27213925.39	27213925.46	0.2635	0.2213
Mercury	69807-08-10 21:07 G	27217764.27	27217764.38	27217764.49	0.2696	0.1023
Mercury	69810-02-07 21:07 G	27218676.24	27218676.38	27218676.51	0.2636	0.0711
Mercury	69820-08-12 17:31 G	27222515.17	27222515.23	27222515.29	0.2694	0.2299
Mercury	69823-02-10 21:07 G	27223427.25	27223427.38	27223427.51	0.2637	0.0865
Mercury	69827-08-06 09:07 G	27225064.78	27225064.88	27225064.99	0.2697	0.1395
Mercury	69836-02-13 21:22 G	27228178.35	27228178.39	27228178.44	0.2638	0.2492
Mercury	69840-08-08 06:00 G	27229815.62	27229815.75	27229815.87	0.2696	0.0107
Mercury	69843-02-06 02:53 G	27230727.53	27230727.62	27230727.71	0.2635	0.1936
Mercury	69853-08-11 02:24 G	27234566.49	27234566.60	27234566.70	0.2695	0.1269
Mercury	69856-02-09 02:39 G	27235478.47	27235478.61	27235478.74	0.2636	0.0418

Mercury	69860-08-03 17:31 G	27237116.19	27237116.23	27237116.27	0.2698	0.2521
Mercury	69866-08-13 22:34 G	27239317.40	27239317.44	27239317.48	0.2694	0.2535
Mercury	69869-02-11 02:39 G	27240229.49	27240229.61	27240229.74	0.2637	0.1167
Mercury	69873-08-06 14:24 G	27241866.99	27241867.10	27241867.21	0.2697	0.1138
Mercury	69886-08-09 11:03 G	27246617.84	27246617.96	27246618.08	0.2696	0.0218
Mercury	69889-02-06 08:39 G	27247529.75	27247529.86	27247529.96	0.2635	0.1645
Venus	69892-07-31 15:36 G	27248801.01	27248801.15	27248801.28	0.2699	0.1420
Mercury	69899-08-12 07:27 G	27251368.71	27251368.81	27251368.91	0.2695	0.1514
Venus	69900-07-30 04:48 G	27251720.61	27251720.70	27251720.79	0.2700	0.2199
Mercury	69902-02-10 08:24 G	27252280.71	27252280.85	27252280.98	0.2636	0.0127
Mercury	69906-08-05 22:48 G	27253918.39	27253918.45	27253918.52	0.2698	0.2258
Mercury	69915-02-13 08:24 G	27257031.74	27257031.85	27257031.97	0.2637	0.1464
Mercury	69919-08-08 19:41 G	27258669.20	27258669.32	27258669.43	0.2697	0.0879
Mercury	69932-08-10 16:19 G	27263420.06	27263420.18	27263420.30	0.2696	0.0458
Mercury	69935-02-08 14:10 G	27264331.98	27264332.09	27264332.21	0.2635	0.1365
Mercury	69945-08-13 12:43 G	27268170.94	27268171.03	27268171.12	0.2695	0.1756
Mercury	69948-02-11 13:55 G	27269082.95	27269083.08	27269083.22	0.2636	0.0185
Mercury	69952-08-06 04:05 G	27270720.59	27270720.67	27270720.75	0.2698	0.1995
Mercury	69961-02-13 14:10 G	27273833.99	27273834.09	27273834.19	0.2637	0.1776
Mercury	69965-08-09 00:58 G	27275471.42	27275471.54	27275471.66	0.2697	0.0628
Mercury	69968-02-06 20:24 G	27276383.32	27276383.35	27276383.38	0.2634	0.2564
Mercury	69978-08-11 21:36 G	27280222.28	27280222.40	27280222.51	0.2696	0.0715
Mercury	69981-02-08 19:55 G	27281134.20	27281134.33	27281134.45	0.2635	0.1075
Mercury	69991-08-14 17:46 G	27284973.16	27284973.24	27284973.32	0.2695	0.1995
Mercury	69994-02-11 19:41 G	27285885.19	27285885.32	27285885.46	0.2636	0.0472
Mercury	69998-08-07 09:22 G	27287522.80	27287522.89	27287522.98	0.2698	0.1733

71ST MILLENNIUM CE

This is a list of transits visible from Earth in the 71st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	70007-02-14 19:55	G	27290636.25	27290636.33	27290636.42	0.2637	0.2079	
Mercury	70011-08-10 06:15	G	27292273.63	27292273.76	27292273.88	0.2697	0.0381	
Venus	70014-02-01 00:58	G	27293179.38	27293179.54	27293179.69	0.2632	0.0284	
Mercury	70014-02-07 01:55	G	27293185.52	27293185.58	27293185.65	0.2634	0.2287	
Mercury	70024-08-12 02:39	G	27297024.50	27297024.61	27297024.72	0.2696	0.0955	
Mercury	70027-02-10 01:27	G	27297936.43	27297936.56	27297936.69	0.2635	0.0794	
Mercury	70037-08-14 23:03	G	27301775.39	27301775.46	27301775.52	0.2695	0.2239	
Mercury	70040-02-13 01:27	G	27302687.43	27302687.56	27302687.69	0.2636	0.0772	
Mercury	70044-08-07 14:39	G	27304325.00	27304325.11	27304325.21	0.2698	0.1480	
Mercury	70053-02-15 01:41	G	27307438.52	27307438.57	27307438.63	0.2637	0.2386	
Mercury	70057-08-10 11:17	G	27309075.85	27309075.97	27309076.09	0.2697	0.0128	
Mercury	70060-02-08 07:27	G	27309987.73	27309987.81	27309987.90	0.2634	0.2011	
Mercury	70070-08-13 07:55	G	27313826.72	27313826.83	27313826.93	0.2696	0.1205	
Mercury	70073-02-10 07:12	G	27314738.66	27314738.80	27314738.93	0.2635	0.0504	
Mercury	70077-08-05 22:48	G	27316376.42	27316376.45	27316376.48	0.2699	0.2613	
Mercury	70083-08-16 04:05	G	27318577.63	27318577.67	27318577.71	0.2695	0.2476	
Mercury	70086-02-13 07:12	G	27319489.67	27319489.80	27319489.92	0.2636	0.1067	
Mercury	70090-08-08 19:41	G	27321127.22	27321127.32	27321127.43	0.2698	0.1219	
Mercury	70103-08-12 16:34	G	27325878.07	27325878.19	27325878.31	0.2697	0.0141	
Mercury	70106-02-09 12:58	G	27326789.94	27326790.04	27326790.15	0.2634	0.1733	
Mercury	70116-08-14 12:58	G	27330628.94	27330629.04	27330629.14	0.2696	0.1447	
Mercury	70119-02-12 12:43	G	27331540.89	27331541.03	27331541.17	0.2636	0.0215	

Mercury	70123-08-08 04:05 G	27333178.61	27333178.67	27333178.73	0.2698	0.2348
Mercury	70132-02-15 12:43 G	27336291.92	27336292.03	27336292.15	0.2637	0.1368
Venus	70135-08-03 15:07 G	27337556.99	27337557.13	27337557.27	0.2700	0.1383
Mercury	70136-08-10 00:58 G	27337929.43	27337929.54	27337929.66	0.2697	0.0963
Venus	70143-08-01 04:34 G	27340476.60	27340476.69	27340476.77	0.2701	0.2235
Mercury	70149-08-12 21:51 G	27342680.29	27342680.41	27342680.53	0.2697	0.0397
Mercury	70152-02-10 18:43 G	27343592.17	27343592.28	27343592.39	0.2635	0.1444
Mercury	70162-08-15 18:15 G	27347431.16	27347431.26	27347431.35	0.2696	0.1694
Mercury	70165-02-12 18:29 G	27348343.13	27348343.27	27348343.40	0.2636	0.0095
Mercury	70169-08-08 09:22 G	27349980.81	27349980.89	27349980.97	0.2698	0.2084
Mercury	70178-02-15 18:29 G	27353094.16	27353094.27	27353094.37	0.2637	0.1663
Mercury	70182-08-11 06:15 G	27354731.64	27354731.76	27354731.88	0.2697	0.0701
Mercury	70185-02-08 00:58 G	27355643.54	27355643.54	27355643.54	0.2634	0.2632
Mercury	70195-08-14 02:53 G	27359482.50	27359482.62	27359482.74	0.2696	0.0635
Mercury	70198-02-11 00:15 G	27360394.39	27360394.51	27360394.64	0.2635	0.1164
Mercury	70208-08-16 23:17 G	27364233.39	27364233.47	27364233.55	0.2695	0.1934
Mercury	70211-02-15 00:00 G	27365145.37	27365145.50	27365145.64	0.2636	0.0384
Mercury	70215-08-10 14:39 G	27366783.02	27366783.11	27366783.20	0.2698	0.1822
Mercury	70224-02-18 00:15 G	27369896.42	27369896.51	27369896.60	0.2637	0.1970
Mercury	70228-08-12 11:31 G	27371533.86	27371533.98	27371534.10	0.2697	0.0448
Mercury	70231-02-10 06:29 G	27372445.71	27372445.77	27372445.83	0.2634	0.2362
Mercury	70241-08-15 08:10 G	27376284.72	27376284.84	27376284.95	0.2696	0.0889
Mercury	70244-02-13 06:00 G	27377196.62	27377196.75	27377196.88	0.2635	0.0868
Mercury	70254-08-18 04:34 G	27381035.62	27381035.69	27381035.75	0.2695	0.2177
Venus	70257-02-03 03:51 G	27381935.50	27381935.66	27381935.82	0.2632	0.0010
Mercury	70257-02-15 05:46 G	27381947.61	27381947.74	27381947.87	0.2636	0.0672
Mercury	70261-08-10 19:55 G	27383585.23	27383585.33	27383585.43	0.2698	0.1558
Mercury	70270-02-18 06:00 G	27386698.68	27386698.75	27386698.81	0.2637	0.2274
Mercury	70274-08-13 16:48 G	27388336.07	27388336.20	27388336.32	0.2697	0.0212
Mercury	70277-02-10 12:00 G	27389247.92	27389248.00	27389248.09	0.2634	0.2083

Mercury	70287-08-16 13:12 G	27393086.94	27393087.05	27393087.16	0.2696	0.1132
Mercury	70290-02-13 11:31 G	27393998.85	27393998.98	27393999.11	0.2635	0.0590
Mercury	70300-08-19 09:36 G	27397837.85	27397837.90	27397837.95	0.2695	0.2420
Mercury	70303-02-17 11:31 G	27398749.85	27398749.98	27398750.10	0.2636	0.0972
Mercury	70307-08-13 01:12 G	27400387.44	27400387.55	27400387.65	0.2698	0.1301
Mercury	70316-02-20 11:46 G	27403500.96	27403500.99	27403501.01	0.2637	0.2584
Mercury	70320-08-14 21:51 G	27405138.29	27405138.41	27405138.54	0.2697	0.0098
Mercury	70323-02-12 17:46 G	27406050.14	27406050.24	27406050.34	0.2634	0.1802
Mercury	70333-08-17 18:29 G	27409889.17	27409889.27	27409889.37	0.2696	0.1383
Mercury	70336-02-15 17:17 G	27410801.08	27410801.22	27410801.35	0.2635	0.0297
Mercury	70340-08-10 09:22 G	27412438.84	27412438.89	27412438.94	0.2699	0.2437
Mercury	70346-08-20 14:39 G	27414640.10	27414640.11	27414640.13	0.2695	0.2659
Mercury	70349-02-17 17:03 G	27415552.09	27415552.21	27415552.33	0.2636	0.1264
Mercury	70353-08-13 06:29 G	27417189.65	27417189.77	27417189.88	0.2698	0.1043
Mercury	70366-08-16 03:07 G	27421940.51	27421940.63	27421940.75	0.2697	0.0314
Mercury	70369-02-12 23:17 G	27422852.36	27422852.47	27422852.58	0.2634	0.1525
Venus	70378-08-05 14:39 G	27426312.97	27426313.11	27426313.25	0.2701	0.1347
Mercury	70379-08-18 23:31 G	27426691.39	27426691.48	27426691.58	0.2696	0.1630
Mercury	70382-02-15 22:48 G	27427603.32	27427603.45	27427603.59	0.2635	0.0030
Venus	70386-08-03 03:51 G	27429232.58	27429232.66	27429232.74	0.2701	0.2285
Mercury	70386-08-11 14:39 G	27429241.04	27429241.11	27429241.18	0.2699	0.2171
Mercury	70395-02-18 22:48 G	27432354.34	27432354.45	27432354.56	0.2636	0.1568
Mercury	70399-08-14 11:31 G	27433991.87	27433991.98	27433992.10	0.2698	0.0785
Mercury	70412-08-16 08:24 G	27438742.73	27438742.85	27438742.97	0.2697	0.0572
Mercury	70415-02-14 04:48 G	27439654.58	27439654.70	27439654.82	0.2634	0.1242
Mercury	70425-08-19 04:48 G	27443493.62	27443493.70	27443493.79	0.2696	0.1874
Mercury	70428-02-17 04:34 G	27444405.55	27444405.69	27444405.82	0.2635	0.0290
Mercury	70432-08-11 19:55 G	27446043.24	27446043.33	27446043.41	0.2699	0.1910
Mercury	70441-02-19 04:34 G	27449156.59	27449156.69	27449156.78	0.2636	0.1863
Mercury	70445-08-14 16:48 G	27450794.08	27450794.20	27450794.32	0.2698	0.0524

Mercury	70448-02-12 11:17 G	27451705.92	27451705.97	27451706.01	0.2634	0.2431
Mercury	70458-08-17 13:27 G	27455544.95	27455545.06	27455545.18	0.2697	0.0818
Mercury	70461-02-14 10:19 G	27456456.81	27456456.93	27456457.06	0.2634	0.0965
Mercury	70471-08-20 10:05 G	27460295.84	27460295.92	27460295.99	0.2696	0.2118
Mercury	70474-02-17 10:05 G	27461207.79	27461207.92	27461208.05	0.2636	0.0571
Mercury	70478-08-13 01:12 G	27462845.45	27462845.55	27462845.64	0.2699	0.1649
Mercury	70487-02-20 10:05 G	27465958.85	27465958.92	27465959.00	0.2636	0.2172
Mercury	70491-08-15 22:05 G	27467596.30	27467596.42	27467596.54	0.2698	0.0276
Mercury	70494-02-12 16:48 G	27468508.12	27468508.20	27468508.27	0.2634	0.2153
Venus	70500-02-05 06:43 G	27470691.62	27470691.78	27470691.94	0.2631	0.0250
Mercury	70504-08-18 18:43 G	27472347.17	27472347.28	27472347.39	0.2697	0.1068
Mercury	70507-02-16 16:05 G	27473259.04	27473259.17	27473259.30	0.2635	0.0670
Mercury	70517-08-21 15:07 G	27477098.07	27477098.13	27477098.19	0.2696	0.2359
Mercury	70520-02-19 15:51 G	27478010.03	27478010.16	27478010.29	0.2636	0.0871
Mercury	70524-08-14 06:29 G	27479647.66	27479647.77	27479647.87	0.2698	0.1387
Mercury	70533-02-21 15:51 G	27482761.12	27482761.16	27482761.21	0.2637	0.2467
Mercury	70537-08-17 03:22 G	27484398.51	27484398.64	27484398.76	0.2697	0.0103
Mercury	70540-02-14 22:19 G	27485310.34	27485310.43	27485310.52	0.2634	0.1876
Mercury	70550-08-20 00:00 G	27489149.39	27489149.50	27489149.60	0.2697	0.1316
Mercury	70553-02-16 21:36 G	27490061.27	27490061.40	27490061.54	0.2635	0.0390
Mercury	70557-08-12 14:39 G	27491699.07	27491699.11	27491699.15	0.2699	0.2529
Mercury	70563-08-22 20:10 G	27493900.32	27493900.34	27493900.37	0.2695	0.2601
Mercury	70566-02-19 21:36 G	27494812.27	27494812.40	27494812.52	0.2636	0.1174
Mercury	70570-08-15 11:31 G	27496449.87	27496449.98	27496450.10	0.2698	0.1127
Mercury	70583-08-18 08:24 G	27501200.73	27501200.85	27501200.98	0.2697	0.0257
Mercury	70586-02-15 03:51 G	27502112.55	27502112.66	27502112.77	0.2634	0.1601
Mercury	70596-08-20 05:03 G	27505951.61	27505951.71	27505951.81	0.2696	0.1564
Mercury	70599-02-18 03:22 G	27506863.50	27506863.64	27506863.77	0.2635	0.0099
Mercury	70603-08-14 19:55 G	27508501.26	27508501.33	27508501.39	0.2699	0.2265
Mercury	70612-02-22 03:07 G	27511614.52	27511614.63	27511614.74	0.2636	0.1466

Mercury	70616-08-16 16:48 G	27513252.09	27513252.20	27513252.32	0.2698	0.0865
Venus	70621-08-07 14:10 G	27515068.95	27515069.09	27515069.23	0.2701	0.1300
Venus	70629-08-05 03:36 G	27517988.57	27517988.65	27517988.73	0.2702	0.2301
Mercury	70629-08-19 13:41 G	27518002.95	27518003.07	27518003.19	0.2697	0.0498
Mercury	70632-02-17 09:22 G	27518914.78	27518914.89	27518915.01	0.2634	0.1320
Mercury	70642-08-22 10:19 G	27522753.84	27522753.93	27522754.02	0.2696	0.1809
Mercury	70645-02-19 08:53 G	27523665.74	27523665.87	27523666.01	0.2635	0.0191
Mercury	70649-08-15 00:58 G	27525303.46	27525303.54	27525303.63	0.2699	0.2000
Mercury	70658-02-22 08:53 G	27528416.77	27528416.87	27528416.97	0.2636	0.1771
Mercury	70662-08-17 22:05 G	27530054.30	27530054.42	27530054.54	0.2698	0.0606
Mercury	70665-02-14 15:51 G	27530966.12	27530966.16	27530966.20	0.2633	0.2502
Mercury	70675-08-20 18:58 G	27534805.17	27534805.29	27534805.41	0.2697	0.0748
Mercury	70678-02-17 15:07 G	27535717.00	27535717.13	27535717.25	0.2634	0.1041
Mercury	70688-08-22 15:22 G	27539556.07	27539556.14	27539556.22	0.2696	0.2057
Mercury	70691-02-20 14:39 G	27540467.97	27540468.11	27540468.24	0.2635	0.0490
Mercury	70695-08-16 06:29 G	27542105.67	27542105.77	27542105.86	0.2699	0.1734
Mercury	70704-02-24 14:24 G	27545219.02	27545219.10	27545219.19	0.2636	0.2068
Mercury	70708-08-19 03:22 G	27546856.52	27546856.64	27546856.76	0.2698	0.0345
Mercury	70711-02-16 21:22 G	27547768.32	27547768.39	27547768.46	0.2633	0.2230
Mercury	70721-08-22 00:00 G	27551607.39	27551607.50	27551607.62	0.2697	0.1002
Mercury	70724-02-19 20:39 G	27552519.23	27552519.36	27552519.49	0.2634	0.0761
Mercury	70734-08-24 20:39 G	27556358.30	27556358.36	27556358.42	0.2696	0.2297
Mercury	70737-02-21 20:10 G	27557270.21	27557270.34	27557270.47	0.2635	0.0782
Mercury	70741-08-17 11:31 G	27558907.88	27558907.98	27558908.09	0.2699	0.1472
Venus	70743-02-08 09:36 G	27559447.75	27559447.90	27559448.06	0.2631	0.0525
Mercury	70750-02-24 20:10 G	27562021.29	27562021.34	27562021.40	0.2636	0.2375
Venus	70751-02-06 02:24 G	27562367.55	27562367.60	27562367.65	0.2630	0.2491
Mercury	70754-08-20 08:39 G	27563658.74	27563658.86	27563658.98	0.2698	0.0088
Mercury	70757-02-17 02:53 G	27564570.53	27564570.62	27564570.71	0.2634	0.1956
Mercury	70767-08-23 05:17 G	27568409.61	27568409.72	27568409.83	0.2697	0.1250

Mercury	70770-02-20 02:10 G	27569321.46	27569321.59	27569321.72	0.2634	0.0470
Mercury	70774-08-15 19:41 G	27570959.29	27570959.32	27570959.34	0.2700	0.2624
Mercury	70780-08-25 01:41 G	27573160.54	27573160.57	27573160.61	0.2696	0.2541
Mercury	70783-02-23 01:55 G	27574072.45	27574072.58	27574072.70	0.2635	0.1073
Mercury	70787-08-18 16:48 G	27575710.09	27575710.20	27575710.31	0.2699	0.1211
Mercury	70800-08-20 13:55 G	27580460.95	27580461.08	27580461.20	0.2698	0.0181
Mercury	70803-02-18 08:24 G	27581372.75	27581372.85	27581372.95	0.2634	0.1674
Mercury	70813-08-23 10:34 G	27585211.84	27585211.94	27585212.04	0.2697	0.1497
Mercury	70816-02-21 07:41 G	27586123.69	27586123.82	27586123.96	0.2635	0.0201
Mercury	70820-08-16 00:58 G	27587761.48	27587761.54	27587761.60	0.2699	0.2356
Mercury	70829-02-23 07:27 G	27590874.70	27590874.81	27590874.93	0.2636	0.1370
Mercury	70833-08-18 22:05 G	27592512.31	27592512.42	27592512.54	0.2699	0.0947
Mercury	70846-08-21 18:58 G	27597263.17	27597263.29	27597263.41	0.2698	0.0430
Mercury	70849-02-18 14:10 G	27598174.97	27598175.09	27598175.20	0.2634	0.1395
Mercury	70859-08-24 15:36 G	27602014.06	27602014.15	27602014.24	0.2697	0.1747
Mercury	70862-02-21 13:27 G	27602925.93	27602926.06	27602926.20	0.2635	0.0117
Venus	70864-08-08 13:41 G	27603824.93	27603825.07	27603825.21	0.2702	0.1266
Mercury	70866-08-17 06:15 G	27604563.69	27604563.76	27604563.84	0.2699	0.2084
Venus	70872-08-06 02:53 G	27606744.55	27606744.62	27606744.70	0.2702	0.2369
Mercury	70875-02-24 13:12 G	27607676.94	27607677.05	27607677.15	0.2636	0.1668
Mercury	70879-08-20 03:22 G	27609314.53	27609314.64	27609314.76	0.2699	0.0687
Mercury	70882-02-16 20:24 G	27610226.33	27610226.35	27610226.38	0.2633	0.2570
Mercury	70892-08-22 00:15 G	27614065.39	27614065.51	27614065.63	0.2698	0.0676
Mercury	70895-02-19 19:41 G	27614977.20	27614977.32	27614977.44	0.2634	0.1116
Mercury	70905-08-25 20:53 G	27618816.29	27618816.37	27618816.45	0.2697	0.1990
Mercury	70908-02-23 19:12 G	27619728.16	27619728.30	27619728.43	0.2635	0.0410
Mercury	70912-08-18 11:31 G	27621365.89	27621365.98	27621366.07	0.2699	0.1820
Mercury	70921-02-25 18:58 G	27624479.20	27624479.29	27624479.38	0.2636	0.1973
Mercury	70925-08-21 08:39 G	27626116.74	27626116.86	27626116.98	0.2698	0.0427
Mercury	70928-02-19 01:55 G	27627028.52	27627028.58	27627028.65	0.2633	0.2299

Mercury	70938-08-24 05:31 G	27630867.62	27630867.73	27630867.84	0.2698	0.0930
Mercury	70941-02-21 01:12 G	27631779.42	27631779.55	27631779.68	0.2634	0.0830
Mercury	70951-08-27 01:55 G	27635618.52	27635618.58	27635618.65	0.2697	0.2242
Mercury	70954-02-24 00:43 G	27636530.40	27636530.53	27636530.66	0.2635	0.0693
Mercury	70958-08-19 16:48 G	27638168.10	27638168.20	27638168.30	0.2699	0.1555
Mercury	70967-02-27 00:29 G	27641281.46	27641281.52	27641281.59	0.2636	0.2269
Mercury	70971-08-22 13:55 G	27642918.96	27642919.08	27642919.20	0.2698	0.0164
Mercury	70974-02-19 07:41 G	27643830.73	27643830.82	27643830.90	0.2633	0.2024
Mercury	70984-08-24 10:48 G	27647669.84	27647669.95	27647670.06	0.2697	0.1185
Venus	70986-02-09 12:29 G	27648203.87	27648204.02	27648204.17	0.2630	0.0777
Mercury	70987-02-22 06:43 G	27648581.65	27648581.78	27648581.91	0.2634	0.0549
Venus	70994-02-07 05:17 G	27651123.63	27651123.72	27651123.80	0.2630	0.2237
Mercury	70997-08-27 07:12 G	27652420.76	27652420.80	27652420.85	0.2696	0.2486
Mercury	71000-02-25 06:15 G	27653332.64	27653332.76	27653332.89	0.2635	0.0983

72ND MILLENNIUM CE

This is a list of transits visible from Earth in the 72nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	71004-08-20 22:05 G		27654970.32	27654970.42	27654970.53	0.2699	0.1291	
Mercury	71013-02-28 06:15 G		27658083.74	27658083.76	27658083.79	0.2636	0.2575	
Mercury	71017-08-23 19:12 G		27659721.18	27659721.30	27659721.42	0.2698	0.0103	
Mercury	71020-02-21 13:12 G		27660632.95	27660633.05	27660633.15	0.2633	0.1746	
Mercury	71030-08-26 15:51 G		27664472.06	27664472.16	27664472.27	0.2697	0.1434	

Mercury	71033-02-23 12:29 G	27665383.88	27665384.02	27665384.15	0.2634	0.0274
Mercury	71037-08-19 06:15 G	27667021.71	27667021.76	27667021.81	0.2700	0.2444
Mercury	71046-02-26 12:00 G	27670134.88	27670135.00	27670135.12	0.2635	0.1278
Mercury	71050-08-22 03:22 G	27671772.53	27671772.64	27671772.76	0.2699	0.1028
Mercury	71063-08-25 00:29 G	27676523.39	27676523.52	27676523.64	0.2698	0.0360
Mercury	71066-02-21 18:43 G	27677435.17	27677435.28	27677435.39	0.2633	0.1472
Mercury	71076-08-26 21:07 G	27681274.29	27681274.38	27681274.47	0.2697	0.1682
Mercury	71079-02-24 18:00 G	27682186.11	27682186.25	27682186.38	0.2634	0.0063
Mercury	71083-08-20 11:31 G	27683823.91	27683823.98	27683824.05	0.2700	0.2178
Mercury	71092-02-27 17:31 G	27686937.13	27686937.23	27686937.34	0.2635	0.1575
Mercury	71096-08-22 08:39 G	27688574.74	27688574.86	27688574.98	0.2699	0.0765
Venus	71107-08-12 13:12 G	27692580.91	27692581.05	27692581.20	0.2703	0.1230
Mercury	71109-08-26 05:31 G	27693325.62	27693325.73	27693325.85	0.2698	0.0615
Mercury	71112-02-24 00:15 G	27694237.39	27694237.51	27694237.63	0.2634	0.1187
Venus	71115-08-10 02:53 G	27695500.54	27695500.62	27695500.69	0.2703	0.2368
Mercury	71122-08-29 02:24 G	27698076.51	27698076.60	27698076.68	0.2697	0.1933
Mercury	71125-02-25 23:31 G	27698988.35	27698988.48	27698988.62	0.2634	0.0313
Mercury	71129-08-21 16:48 G	27700626.11	27700626.20	27700626.29	0.2700	0.1907
Mercury	71138-02-28 23:17 G	27703739.37	27703739.47	27703739.56	0.2635	0.1868
Mercury	71142-08-24 13:55 G	27705376.96	27705377.08	27705377.20	0.2699	0.0503
Mercury	71145-02-21 06:43 G	27706288.73	27706288.78	27706288.84	0.2633	0.2360
Mercury	71155-08-27 10:48 G	27710127.84	27710127.95	27710128.07	0.2698	0.0862
Mercury	71158-02-24 05:46 G	27711039.62	27711039.74	27711039.87	0.2634	0.0906
Mercury	71168-08-29 07:27 G	27714878.74	27714878.81	27714878.88	0.2697	0.2181
Mercury	71171-02-27 05:03 G	27715790.58	27715790.71	27715790.85	0.2635	0.0609
Mercury	71175-08-22 22:05 G	27717428.32	27717428.42	27717428.52	0.2699	0.1641
Mercury	71184-03-01 05:03 G	27720541.63	27720541.71	27720541.78	0.2635	0.2173
Mercury	71188-08-24 19:12 G	27722179.18	27722179.30	27722179.42	0.2699	0.0242
Mercury	71191-02-22 12:15 G	27723090.93	27723091.01	27723091.09	0.2633	0.2085
Mercury	71201-08-27 16:05 G	27726930.06	27726930.17	27726930.28	0.2698	0.1114

Mercury	71204-02-25 11:17 G	27727841.84	27727841.97	27727842.11	0.2634	0.0629
Mercury	71214-08-30 12:43 G	27731680.98	27731681.03	27731681.08	0.2697	0.2426
Mercury	71217-02-27 10:48 G	27732592.82	27732592.95	27732593.08	0.2634	0.0898
Mercury	71221-08-23 03:22 G	27734230.54	27734230.64	27734230.75	0.2699	0.1371
Venus	71229-02-11 15:36 G	27736960.00	27736960.15	27736960.29	0.2630	0.1071
Mercury	71230-03-02 10:34 G	27737343.90	27737343.94	27737343.99	0.2636	0.2473
Mercury	71234-08-26 00:29 G	27738981.40	27738981.52	27738981.64	0.2699	0.0019
Venus	71237-02-09 08:24 G	27739879.74	27739879.85	27739879.95	0.2629	0.1943
Mercury	71237-02-22 17:46 G	27739893.15	27739893.24	27739893.34	0.2633	0.1815
Mercury	71247-08-28 21:22 G	27743732.28	27743732.39	27743732.49	0.2698	0.1369
Mercury	71250-02-25 16:48 G	27744644.07	27744644.20	27744644.34	0.2634	0.0353
Mercury	71254-08-21 11:17 G	27746281.93	27746281.97	27746282.01	0.2700	0.2538
Mercury	71260-08-30 17:46 G	27748483.23	27748483.24	27748483.26	0.2697	0.2670
Mercury	71263-02-28 16:34 G	27749395.07	27749395.19	27749395.31	0.2635	0.1193
Mercury	71267-08-24 08:39 G	27751032.75	27751032.86	27751032.97	0.2699	0.1109
Mercury	71280-08-26 05:46 G	27755783.62	27755783.74	27755783.86	0.2698	0.0281
Mercury	71283-02-23 23:17 G	27756695.37	27756695.47	27756695.58	0.2633	0.1539
Mercury	71293-08-29 02:39 G	27760534.51	27760534.61	27760534.70	0.2698	0.1623
Mercury	71296-02-26 22:34 G	27761446.30	27761446.44	27761446.57	0.2634	0.0059
Mercury	71300-08-22 16:34 G	27763084.13	27763084.19	27763084.26	0.2700	0.2268
Mercury	71309-03-01 22:05 G	27766197.31	27766197.42	27766197.53	0.2635	0.1483
Mercury	71313-08-25 13:55 G	27767834.96	27767835.08	27767835.20	0.2699	0.0843
Mercury	71326-08-28 11:03 G	27772585.84	27772585.96	27772586.08	0.2698	0.0538
Mercury	71329-02-25 04:48 G	27773497.59	27773497.70	27773497.82	0.2633	0.1265
Mercury	71339-08-31 07:41 G	27777336.74	27777336.82	27777336.91	0.2697	0.1872
Mercury	71342-02-28 04:05 G	27778248.54	27778248.67	27778248.81	0.2634	0.0229
Mercury	71346-08-23 21:51 G	27779886.33	27779886.41	27779886.50	0.2700	0.2000
Venus	71350-08-13 13:12 G	27781336.90	27781337.05	27781337.19	0.2703	0.1204
Mercury	71355-03-03 03:51 G	27782999.56	27782999.66	27782999.76	0.2635	0.1782
Venus	71358-08-11 02:24 G	27784256.53	27784256.60	27784256.67	0.2703	0.2416

Mercury	71359-08-26 19:12 G	27784637.18	27784637.30	27784637.42	0.2699	0.0580
Mercury	71362-02-23 11:31 G	27785548.93	27785548.98	27785549.03	0.2632	0.2426
Mercury	71372-08-28 16:19 G	27789388.06	27789388.18	27789388.29	0.2698	0.0798
Mercury	71375-02-26 10:19 G	27790299.81	27790299.93	27790300.06	0.2633	0.0985
Mercury	71385-08-31 12:58 G	27794138.96	27794139.04	27794139.11	0.2697	0.2119
Mercury	71388-02-29 09:51 G	27795050.77	27795050.91	27795051.04	0.2634	0.0525
Mercury	71392-08-24 03:22 G	27796688.54	27796688.64	27796688.73	0.2700	0.1727
Mercury	71401-03-04 09:22 G	27799801.81	27799801.89	27799801.97	0.2635	0.2077
Mercury	71405-08-28 00:29 G	27801439.40	27801439.52	27801439.64	0.2699	0.0318
Mercury	71408-02-25 17:03 G	27802351.14	27802351.21	27802351.28	0.2632	0.2153
Mercury	71418-08-30 21:22 G	27806190.28	27806190.39	27806190.51	0.2698	0.1050
Mercury	71421-02-27 16:05 G	27807102.04	27807102.17	27807102.29	0.2633	0.0710
Mercury	71431-09-02 18:00 G	27810941.20	27810941.25	27810941.31	0.2697	0.2369
Mercury	71434-03-02 15:22 G	27811853.01	27811853.14	27811853.27	0.2634	0.0811
Mercury	71438-08-26 08:39 G	27813490.75	27813490.86	27813490.96	0.2700	0.1462
Mercury	71447-03-05 15:07 G	27816604.07	27816604.13	27816604.18	0.2635	0.2377
Mercury	71451-08-29 05:46 G	27818241.62	27818241.74	27818241.86	0.2699	0.0057
Mercury	71454-02-25 22:34 G	27819153.35	27819153.44	27819153.53	0.2633	0.1881
Mercury	71464-08-31 02:39 G	27822992.51	27822992.61	27822992.72	0.2698	0.1303
Mercury	71467-02-28 21:36 G	27823904.27	27823904.40	27823904.53	0.2633	0.0414
Mercury	71471-08-24 16:19 G	27825542.16	27825542.18	27825542.21	0.2701	0.2634
Venus	71472-02-14 18:29 G	27825716.13	27825716.27	27825716.40	0.2629	0.1336
Mercury	71477-09-02 23:17 G	27827743.44	27827743.47	27827743.50	0.2697	0.2614
Venus	71480-02-12 11:03 G	27828635.84	27828635.96	27828636.08	0.2629	0.1681
Mercury	71480-03-02 20:53 G	27828655.25	27828655.37	27828655.50	0.2634	0.1103
Mercury	71484-08-26 13:55 G	27830292.97	27830293.08	27830293.19	0.2700	0.1188
Mercury	71497-08-29 11:03 G	27835043.84	27835043.96	27835044.08	0.2699	0.0206
Mercury	71500-02-27 04:05 G	27835955.56	27835955.67	27835955.77	0.2632	0.1606
Mercury	71510-09-02 07:55 G	27839794.73	27839794.83	27839794.93	0.2698	0.1555
Mercury	71513-03-02 03:07 G	27840706.50	27840706.63	27840706.77	0.2633	0.0135

Mercury	71517-08-25 21:51 G	27842344.35	27842344.41	27842344.47	0.2700	0.2357
Mercury	71526-03-05 02:39 G	27845457.49	27845457.61	27845457.72	0.2634	0.1398
Mercury	71530-08-28 19:12 G	27847095.18	27847095.30	27847095.42	0.2700	0.0924
Mercury	71543-08-31 16:19 G	27851846.06	27851846.18	27851846.30	0.2699	0.0467
Mercury	71546-02-28 09:36 G	27852757.79	27852757.90	27852758.02	0.2633	0.1326
Mercury	71556-09-02 12:58 G	27856596.96	27856597.04	27856597.13	0.2698	0.1810
Mercury	71559-03-03 08:53 G	27857508.73	27857508.87	27857509.00	0.2634	0.0181
Mercury	71563-08-27 03:07 G	27859146.55	27859146.63	27859146.71	0.2700	0.2084
Mercury	71572-03-05 08:10 G	27862259.74	27862259.84	27862259.95	0.2634	0.1693
Mercury	71576-08-29 00:29 G	27863897.40	27863897.52	27863897.64	0.2699	0.0656
Mercury	71579-02-26 16:19 G	27864809.14	27864809.18	27864809.22	0.2632	0.2486
Mercury	71589-08-31 21:36 G	27868648.28	27868648.40	27868648.51	0.2699	0.0725
Mercury	71592-02-29 15:07 G	27869560.01	27869560.13	27869560.25	0.2633	0.1055
Venus	71593-08-15 12:43 G	27870092.88	27870093.03	27870093.17	0.2703	0.1170
Venus	71601-08-13 02:10 G	27873012.52	27873012.59	27873012.66	0.2704	0.2430
Mercury	71602-09-03 18:15 G	27873399.19	27873399.26	27873399.34	0.2698	0.2061
Mercury	71605-03-03 14:24 G	27874310.96	27874311.10	27874311.23	0.2634	0.0446
Mercury	71609-08-27 08:24 G	27875948.76	27875948.85	27875948.94	0.2700	0.1813
Mercury	71618-03-06 13:55 G	27879061.99	27879062.08	27879062.17	0.2635	0.1991
Mercury	71622-08-30 05:46 G	27880699.62	27880699.74	27880699.86	0.2699	0.0394
Mercury	71625-02-26 21:51 G	27881611.34	27881611.41	27881611.48	0.2632	0.2223
Mercury	71635-09-02 02:53 G	27885450.50	27885450.62	27885450.73	0.2698	0.0987
Mercury	71638-03-01 20:39 G	27886362.23	27886362.36	27886362.49	0.2633	0.0772
Mercury	71648-09-03 23:31 G	27890201.42	27890201.48	27890201.54	0.2697	0.2311
Mercury	71651-03-04 19:55 G	27891113.20	27891113.33	27891113.46	0.2634	0.0728
Mercury	71655-08-28 13:41 G	27892750.97	27892751.07	27892751.18	0.2700	0.1544
Mercury	71664-03-06 19:27 G	27895864.25	27895864.31	27895864.38	0.2635	0.2285
Mercury	71668-08-30 11:03 G	27897501.84	27897501.96	27897502.08	0.2699	0.0135
Mercury	71671-02-28 03:22 G	27898413.55	27898413.64	27898413.73	0.2632	0.1947
Mercury	71681-09-02 07:55 G	27902252.72	27902252.83	27902252.94	0.2698	0.1236

Mercury	71684-03-02 02:10 G	27903164.46	27903164.59	27903164.72	0.2633	0.0497
Mercury	71694-09-05 04:48 G	27907003.66	27907003.70	27907003.73	0.2697	0.2561
Mercury	71697-03-05 01:27 G	27907915.44	27907915.56	27907915.69	0.2634	0.1018
Mercury	71701-08-29 18:58 G	27909553.18	27909553.29	27909553.40	0.2700	0.1279
Mercury	71710-03-09 01:12 G	27912666.53	27912666.55	27912666.57	0.2635	0.2585
Mercury	71714-09-01 16:19 G	27914304.05	27914304.18	27914304.30	0.2699	0.0137
Venus	71715-02-16 21:22 G	27914472.27	27914472.39	27914472.52	0.2629	0.1625
Mercury	71717-03-01 08:53 G	27915215.77	27915215.87	27915215.97	0.2632	0.1670
Venus	71723-02-14 14:10 G	27917391.96	27917392.09	27917392.23	0.2628	0.1388
Mercury	71727-09-04 13:12 G	27919054.95	27919055.05	27919055.15	0.2698	0.1494
Mercury	71730-03-04 07:41 G	27919966.69	27919966.82	27919966.96	0.2633	0.0227
Mercury	71734-08-28 02:53 G	27921604.57	27921604.62	27921604.67	0.2701	0.2450
Mercury	71743-03-07 06:58 G	27924717.68	27924717.79	27924717.91	0.2634	0.1310
Mercury	71747-08-31 00:15 G	27926355.40	27926355.51	27926355.63	0.2700	0.1011
Mercury	71760-09-01 21:36 G	27931106.28	27931106.40	27931106.52	0.2699	0.0396
Mercury	71763-03-02 14:24 G	27932017.99	27932018.10	27932018.21	0.2632	0.1397
Mercury	71773-09-04 18:29 G	27935857.18	27935857.27	27935857.36	0.2698	0.1744
Mercury	71776-03-04 13:27 G	27936768.92	27936769.06	27936769.19	0.2633	0.0104
Mercury	71780-08-28 08:10 G	27938406.77	27938406.84	27938406.92	0.2701	0.2175
Mercury	71789-03-07 12:43 G	27941519.92	27941520.03	27941520.14	0.2634	0.1606
Mercury	71793-08-31 05:46 G	27943157.62	27943157.74	27943157.85	0.2700	0.0748
Mercury	71796-02-28 21:07 G	27944069.35	27944069.38	27944069.41	0.2632	0.2549
Mercury	71806-09-04 02:53 G	27947908.50	27947908.62	27947908.74	0.2699	0.0657
Mercury	71809-03-03 19:55 G	27948820.21	27948820.33	27948820.45	0.2632	0.1118
Mercury	71819-09-06 23:46 G	27952659.41	27952659.49	27952659.57	0.2698	0.1999
Mercury	71822-03-06 18:58 G	27953571.16	27953571.29	27953571.42	0.2633	0.0365
Mercury	71826-08-30 13:41 G	27955208.98	27955209.07	27955209.15	0.2701	0.1904
Mercury	71835-03-09 18:29 G	27958322.17	27958322.27	27958322.36	0.2634	0.1900
Venus	71836-08-17 12:29 G	27958848.88	27958849.02	27958849.17	0.2704	0.1152
Mercury	71839-09-02 11:03 G	27959959.83	27959959.96	27959960.08	0.2700	0.0478

Mercury	71842-03-02 02:39 G	27960871.55	27960871.61	27960871.67	0.2632	0.2275
Venus	71844-08-15 01:55 G	27961768.52	27961768.58	27961768.64	0.2704	0.2453
Mercury	71852-09-04 08:10 G	27964710.72	27964710.84	27964710.95	0.2699	0.0915
Mercury	71855-03-05 01:27 G	27965622.43	27965622.56	27965622.68	0.2632	0.0845
Mercury	71865-09-07 04:48 G	27969461.64	27969461.70	27969461.77	0.2698	0.2253
Mercury	71868-03-07 00:29 G	27970373.39	27970373.52	27970373.65	0.2633	0.0648
Mercury	71872-08-30 18:58 G	27972011.19	27972011.29	27972011.38	0.2700	0.1633
Mercury	71881-03-10 00:00 G	27975124.43	27975124.50	27975124.57	0.2634	0.2199
Mercury	71885-09-02 16:19 G	27976762.05	27976762.18	27976762.30	0.2700	0.0220
Mercury	71888-03-02 08:10 G	27977673.75	27977673.84	27977673.92	0.2632	0.2008
Mercury	71898-09-05 13:27 G	27981512.95	27981513.06	27981513.17	0.2699	0.1175
Mercury	71901-03-06 06:58 G	27982424.66	27982424.79	27982424.92	0.2633	0.0560
Mercury	71911-09-09 10:05 G	27986263.88	27986263.92	27986263.96	0.2698	0.2501
Mercury	71914-03-09 06:00 G	27987175.63	27987175.75	27987175.88	0.2633	0.0941
Mercury	71918-09-02 00:15 G	27988813.40	27988813.51	27988813.62	0.2700	0.1360
Mercury	71927-03-12 05:31 G	27991926.69	27991926.73	27991926.77	0.2634	0.2493
Mercury	71931-09-04 21:36 G	27993564.27	27993564.40	27993564.52	0.2699	0.0088
Mercury	71934-03-04 13:41 G	27994475.97	27994476.07	27994476.17	0.2632	0.1738
Mercury	71944-09-06 18:29 G	27998315.17	27998315.27	27998315.38	0.2699	0.1428
Mercury	71947-03-07 12:29 G	27999226.89	27999227.02	27999227.15	0.2633	0.0288
Mercury	71951-08-31 07:55 G	28000864.79	28000864.83	28000864.87	0.2701	0.2544
Venus	71958-02-19 00:15 G	28003228.40	28003228.51	28003228.62	0.2628	0.1892
Mercury	71960-03-09 11:46 G	28003977.87	28003977.99	28003978.11	0.2634	0.1231
Mercury	71964-09-02 05:31 G	28005615.62	28005615.73	28005615.84	0.2700	0.1091
Venus	71966-02-16 16:48 G	28006148.06	28006148.20	28006148.35	0.2628	0.1131
Mercury	71977-09-05 02:53 G	28010366.49	28010366.62	28010366.74	0.2700	0.0325
Mercury	71980-03-04 18:58 G	28011278.18	28011278.29	28011278.40	0.2632	0.1469
Mercury	71990-09-07 23:46 G	28015117.40	28015117.49	28015117.59	0.2699	0.1684
Mercury	71993-03-07 18:00 G	28016029.12	28016029.25	28016029.38	0.2633	0.0009
Mercury	71997-08-31 13:12 G	28017666.99	28017667.05	28017667.12	0.2701	0.2274

73RD MILLENNIUM CE

This is a list of transits visible from Earth in the 73rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	72006-03-10 17:17	G	28020780.11	28020780.22	28020780.33	0.2634	0.1514	
Mercury	72010-09-03 10:48	G	28022417.83	28022417.95	28022418.07	0.2700	0.0821	
Mercury	72013-03-03 01:55	G	28023329.57	28023329.58	28023329.60	0.2631	0.2605	
Mercury	72023-09-06 08:10	G	28027168.72	28027168.84	28027168.96	0.2699	0.0587	
Mercury	72026-03-06 00:29	G	28028080.41	28028080.52	28028080.64	0.2632	0.1193	
Mercury	72036-09-08 05:03	G	28031919.63	28031919.71	28031919.79	0.2698	0.1936	
Mercury	72039-03-08 23:31	G	28032831.35	28032831.48	28032831.61	0.2633	0.0278	
Mercury	72043-09-01 18:43	G	28034469.19	28034469.28	28034469.36	0.2701	0.1998	
Mercury	72052-03-10 22:48	G	28037582.36	28037582.45	28037582.55	0.2634	0.1812	
Mercury	72056-09-03 16:05	G	28039220.05	28039220.17	28039220.29	0.2700	0.0557	
Mercury	72059-03-04 07:27	G	28040131.75	28040131.81	28040131.87	0.2631	0.2337	
Mercury	72069-09-06 13:27	G	28043970.94	28043971.06	28043971.17	0.2699	0.0845	
Mercury	72072-03-06 06:15	G	28044882.63	28044882.76	28044882.88	0.2632	0.0911	
Venus	72079-08-19 12:00	G	28047604.86	28047605.00	28047605.15	0.2704	0.1103	
Mercury	72082-09-09 10:19	G	28048721.86	28048721.93	28048722.00	0.2698	0.2192	
Mercury	72085-03-09 05:03	G	28049633.58	28049633.71	28049633.85	0.2633	0.0577	
Venus	72087-08-17 01:27	G	28050524.51	28050524.56	28050524.62	0.2705	0.2492	
Mercury	72089-09-02 00:00	G	28051271.40	28051271.50	28051271.60	0.2701	0.1720	
Mercury	72098-03-12 04:34	G	28054384.61	28054384.69	28054384.77	0.2634	0.2102	

Mercury	72102-09-05 21:22 G	28056022.27	28056022.39	28056022.52	0.2700	0.0293
Mercury	72105-03-05 12:58 G	28056933.96	28056934.04	28056934.12	0.2631	0.2066
Mercury	72115-09-08 18:29 G	28060773.16	28060773.27	28060773.39	0.2699	0.1101
Mercury	72118-03-08 11:46 G	28061684.86	28061684.99	28061685.11	0.2632	0.0641
Mercury	72128-09-10 15:22 G	28065524.09	28065524.14	28065524.19	0.2698	0.2441
Mercury	72131-03-11 10:48 G	28066435.82	28066435.95	28066436.07	0.2633	0.0861
Mercury	72135-09-04 05:17 G	28068073.62	28068073.72	28068073.83	0.2701	0.1446
Mercury	72144-03-13 10:05 G	28071186.87	28071186.92	28071186.97	0.2634	0.2405
Mercury	72148-09-06 02:39 G	28072824.49	28072824.61	28072824.74	0.2700	0.0100
Mercury	72151-03-06 18:29 G	28073736.17	28073736.27	28073736.36	0.2632	0.1803
Mercury	72161-09-08 23:46 G	28077575.39	28077575.49	28077575.60	0.2699	0.1362
Mercury	72164-03-08 17:17 G	28078487.08	28078487.22	28078487.35	0.2632	0.0358
Mercury	72168-09-01 12:58 G	28080125.02	28080125.04	28080125.06	0.2701	0.2642
Mercury	72174-09-11 20:39 G	28082326.36	28082326.36	28082326.36	0.2698	0.2692
Mercury	72177-03-11 16:19 G	28083238.06	28083238.18	28083238.30	0.2633	0.1146
Mercury	72181-09-04 10:34 G	28084875.83	28084875.94	28084876.06	0.2701	0.1179
Mercury	72194-09-07 07:55 G	28089626.71	28089626.83	28089626.96	0.2700	0.0261
Mercury	72197-03-07 00:00 G	28090538.39	28090538.50	28090538.60	0.2632	0.1529
Venus	72201-02-21 03:07 G	28091984.55	28091984.63	28091984.72	0.2628	0.2173
Mercury	72207-09-11 05:03 G	28094377.61	28094377.71	28094377.81	0.2699	0.1617
Venus	72209-02-18 19:41 G	28094904.17	28094904.32	28094904.48	0.2628	0.0845
Mercury	72210-03-10 22:48 G	28095289.31	28095289.45	28095289.58	0.2632	0.0116
Mercury	72214-09-03 18:15 G	28096927.21	28096927.26	28096927.32	0.2701	0.2365
Mercury	72223-03-13 21:51 G	28100040.30	28100040.41	28100040.52	0.2633	0.1435
Mercury	72227-09-06 15:51 G	28101678.05	28101678.16	28101678.28	0.2701	0.0911
Mercury	72240-09-08 13:12 G	28106428.93	28106429.05	28106429.17	0.2700	0.0512
Mercury	72243-03-09 05:17 G	28107340.61	28107340.72	28107340.84	0.2632	0.1259
Mercury	72253-09-11 10:19 G	28111179.84	28111179.93	28111180.02	0.2699	0.1876
Mercury	72256-03-11 04:19 G	28112091.54	28112091.68	28112091.81	0.2633	0.0215
Mercury	72260-09-03 23:46 G	28113729.41	28113729.49	28113729.57	0.2701	0.2085

Mercury	72269-03-14 03:22 G	28116842.54	28116842.64	28116842.74	0.2633	0.1725
Mercury	72273-09-06 21:22 G	28118480.27	28118480.39	28118480.51	0.2700	0.0636
Mercury	72276-03-06 12:15 G	28119391.96	28119392.01	28119392.06	0.2631	0.2400
Mercury	72286-09-09 18:29 G	28123231.15	28123231.27	28123231.39	0.2700	0.0771
Mercury	72289-03-09 10:48 G	28124142.83	28124142.95	28124143.08	0.2632	0.0984
Mercury	72299-09-12 15:36 G	28127982.07	28127982.15	28127982.22	0.2699	0.2128
Mercury	72302-03-13 09:51 G	28128893.78	28128893.91	28128894.04	0.2633	0.0493
Mercury	72306-09-06 05:03 G	28130531.62	28130531.71	28130531.80	0.2701	0.1811
Mercury	72315-03-16 09:07 G	28133644.79	28133644.88	28133644.96	0.2634	0.2023
Mercury	72319-09-09 02:39 G	28135282.49	28135282.61	28135282.73	0.2700	0.0368
Mercury	72322-03-08 17:46 G	28136194.16	28136194.24	28136194.31	0.2631	0.2133
Venus	72322-08-22 12:00 G	28136360.85	28136361.00	28136361.14	0.2705	0.1095
Venus	72330-08-20 01:27 G	28139280.50	28139280.56	28139280.61	0.2705	0.2509
Mercury	72332-09-10 23:46 G	28140033.38	28140033.49	28140033.61	0.2700	0.1035
Mercury	72335-03-11 16:19 G	28140945.05	28140945.18	28140945.31	0.2632	0.0706
Mercury	72345-09-13 20:53 G	28144784.31	28144784.37	28144784.42	0.2699	0.2386
Mercury	72348-03-13 15:22 G	28145696.01	28145696.14	28145696.27	0.2633	0.0778
Mercury	72352-09-06 10:19 G	28147333.83	28147333.93	28147334.04	0.2701	0.1539
Mercury	72361-03-16 14:39 G	28150447.05	28150447.11	28150447.17	0.2634	0.2309
Mercury	72365-09-09 07:55 G	28152084.70	28152084.83	28152084.95	0.2700	0.0110
Mercury	72368-03-08 23:17 G	28152996.38	28152996.47	28152996.56	0.2631	0.1859
Mercury	72378-09-12 05:03 G	28156835.60	28156835.71	28156835.82	0.2699	0.1293
Mercury	72381-03-11 21:51 G	28157747.28	28157747.41	28157747.54	0.2632	0.0428
Mercury	72391-09-15 01:55 G	28161586.56	28161586.58	28161586.61	0.2699	0.2640
Mercury	72394-03-14 20:53 G	28162498.25	28162498.37	28162498.49	0.2633	0.1061
Mercury	72398-09-07 15:36 G	28164136.04	28164136.15	28164136.27	0.2701	0.1267
Mercury	72407-03-17 20:10 G	28167249.33	28167249.34	28167249.36	0.2634	0.2613
Mercury	72411-09-10 13:12 G	28168886.92	28168887.05	28168887.17	0.2700	0.0170
Mercury	72414-03-10 04:48 G	28169798.59	28169798.70	28169798.80	0.2631	0.1589
Mercury	72424-09-12 10:19 G	28173637.83	28173637.93	28173638.03	0.2699	0.1552

Mercury	72427-03-13 03:22 G	28174549.51	28174549.64	28174549.78	0.2632	0.0161
Mercury	72431-09-05 23:31 G	28176187.43	28176187.48	28176187.53	0.2702	0.2458
Mercury	72440-03-15 02:24 G	28179300.49	28179300.60	28179300.72	0.2633	0.1357
Venus	72444-02-23 06:00 G	28180740.69	28180740.75	28180740.80	0.2628	0.2439
Mercury	72444-09-07 21:07 G	28180938.26	28180938.38	28180938.49	0.2701	0.0989
Venus	72452-02-20 22:34 G	28183660.29	28183660.44	28183660.60	0.2627	0.0576
Mercury	72457-09-10 18:29 G	28185689.15	28185689.27	28185689.39	0.2700	0.0434
Mercury	72460-03-10 10:19 G	28186600.81	28186600.93	28186601.04	0.2631	0.1321
Mercury	72470-09-13 15:36 G	28190440.06	28190440.15	28190440.24	0.2699	0.1808
Mercury	72473-03-13 08:53 G	28191351.74	28191351.87	28191352.00	0.2632	0.0139
Mercury	72477-09-06 04:48 G	28192989.63	28192989.70	28192989.77	0.2701	0.2181
Mercury	72486-03-16 08:10 G	28196102.73	28196102.84	28196102.94	0.2633	0.1650
Mercury	72490-09-09 02:24 G	28197740.48	28197740.60	28197740.72	0.2701	0.0716
Mercury	72493-03-08 17:17 G	28198652.17	28198652.22	28198652.26	0.2631	0.2457
Mercury	72503-09-12 23:46 G	28202491.37	28202491.49	28202491.61	0.2700	0.0701
Mercury	72506-03-12 15:36 G	28203403.03	28203403.15	28203403.27	0.2632	0.1048
Mercury	72516-09-14 20:53 G	28207242.29	28207242.37	28207242.45	0.2699	0.2069
Mercury	72519-03-15 14:24 G	28208153.97	28208154.10	28208154.24	0.2632	0.0426
Mercury	72523-09-08 10:05 G	28209791.83	28209791.92	28209792.01	0.2702	0.1903
Mercury	72532-03-17 13:41 G	28212904.98	28212905.07	28212905.16	0.2633	0.1936
Mercury	72536-09-10 07:41 G	28214542.70	28214542.82	28214542.94	0.2701	0.0447
Mercury	72539-03-10 22:34 G	28215454.37	28215454.44	28215454.52	0.2631	0.2192
Mercury	72549-09-13 05:03 G	28219293.60	28219293.71	28219293.83	0.2700	0.0964
Mercury	72552-03-12 21:07 G	28220205.25	28220205.38	28220205.51	0.2632	0.0772
Mercury	72562-09-16 02:10 G	28224044.53	28224044.59	28224044.65	0.2699	0.2324
Mercury	72565-03-15 19:55 G	28224956.20	28224956.33	28224956.46	0.2632	0.0703
Venus	72565-08-23 11:31 G	28225116.83	28225116.98	28225117.12	0.2705	0.1038
Mercury	72569-09-08 15:22 G	28226594.04	28226594.14	28226594.24	0.2701	0.1628
Venus	72573-08-21 00:58 G	28228036.49	28228036.54	28228036.59	0.2705	0.2541
Mercury	72578-03-18 19:12 G	28229707.23	28229707.30	28229707.37	0.2633	0.2233

Mercury	72582-09-11 12:58 G	28231344.92	28231345.04	28231345.17	0.2701	0.0183
Mercury	72585-03-11 04:05 G	28232256.58	28232256.67	28232256.76	0.2631	0.1923
Mercury	72595-09-14 10:19 G	28236095.82	28236095.93	28236096.04	0.2700	0.1225
Mercury	72598-03-14 02:39 G	28237007.48	28237007.61	28237007.74	0.2632	0.0495
Mercury	72608-09-17 07:12 G	28240846.77	28240846.80	28240846.84	0.2699	0.2582
Mercury	72611-03-18 01:41 G	28241758.44	28241758.57	28241758.69	0.2632	0.0993
Mercury	72615-09-10 20:53 G	28243396.26	28243396.37	28243396.47	0.2701	0.1351
Mercury	72624-03-20 00:43 G	28246509.50	28246509.53	28246509.57	0.2633	0.2522
Mercury	72628-09-12 18:15 G	28248147.14	28248147.26	28248147.39	0.2700	0.0138
Mercury	72631-03-13 09:36 G	28249058.80	28249058.90	28249059.00	0.2631	0.1654
Mercury	72641-09-15 15:36 G	28252898.05	28252898.15	28252898.25	0.2700	0.1486
Mercury	72644-03-15 08:10 G	28253809.71	28253809.84	28253809.97	0.2632	0.0220
Mercury	72648-09-08 04:19 G	28255447.64	28255447.68	28255447.72	0.2702	0.2559
Mercury	72657-03-18 07:12 G	28258560.68	28258560.80	28258560.91	0.2633	0.1276
Mercury	72661-09-11 02:10 G	28260198.47	28260198.59	28260198.70	0.2701	0.1077
Mercury	72674-09-13 23:46 G	28264949.36	28264949.49	28264949.61	0.2700	0.0368
Mercury	72677-03-13 15:07 G	28265861.01	28265861.13	28265861.24	0.2631	0.1384
Mercury	72687-09-16 20:53 G	28269700.28	28269700.37	28269700.46	0.2700	0.1746
Mercury	72690-03-16 13:41 G	28270611.94	28270612.07	28270612.20	0.2632	0.0069
Mercury	72694-09-09 09:36 G	28272249.84	28272249.90	28272249.97	0.2702	0.2279
Venus	72695-02-23 01:12 G	28272416.40	28272416.55	28272416.71	0.2627	0.0310
Mercury	72703-03-20 12:43 G	28275362.92	28275363.03	28275363.13	0.2633	0.1563
Mercury	72707-09-13 07:27 G	28277000.69	28277000.81	28277000.93	0.2701	0.0803
Mercury	72710-03-12 22:05 G	28277912.39	28277912.42	28277912.46	0.2630	0.2509
Mercury	72720-09-15 05:03 G	28281751.58	28281751.71	28281751.83	0.2700	0.0632
Mercury	72723-03-15 20:24 G	28282663.24	28282663.35	28282663.47	0.2631	0.1111
Mercury	72733-09-18 02:10 G	28286502.51	28286502.59	28286502.67	0.2700	0.2005
Mercury	72736-03-17 19:12 G	28287414.17	28287414.30	28287414.43	0.2632	0.0347
Mercury	72740-09-10 15:07 G	28289052.05	28289052.13	28289052.21	0.2702	0.1997
Mercury	72749-03-20 18:15 G	28292165.17	28292165.26	28292165.35	0.2633	0.1854

Mercury	72753-09-13 12:43 G	28293802.91	28293803.03	28293803.16	0.2701	0.0535
Mercury	72756-03-13 03:36 G	28294714.58	28294714.65	28294714.71	0.2631	0.2245
Mercury	72766-09-16 10:19 G	28298553.81	28298553.93	28298554.04	0.2700	0.0893
Mercury	72769-03-16 01:55 G	28299465.46	28299465.58	28299465.71	0.2631	0.0835
Mercury	72779-09-19 07:12 G	28303304.74	28303304.80	28303304.87	0.2699	0.2265
Mercury	72782-03-19 00:43 G	28304216.40	28304216.53	28304216.66	0.2632	0.0634
Mercury	72786-09-11 20:24 G	28305854.26	28305854.35	28305854.45	0.2702	0.1716
Mercury	72795-03-21 23:46 G	28308967.42	28308967.49	28308967.57	0.2633	0.2148
Mercury	72799-09-14 18:15 G	28310605.13	28310605.26	28310605.38	0.2701	0.0258
Mercury	72802-03-14 09:07 G	28311516.79	28311516.88	28311516.96	0.2631	0.1980
Venus	72808-08-25 11:17 G	28313872.83	28313872.97	28313873.12	0.2705	0.1034
Mercury	72812-09-16 15:36 G	28315356.04	28315356.15	28315356.26	0.2700	0.1159
Mercury	72815-03-17 07:27 G	28316267.68	28316267.81	28316267.94	0.2631	0.0560
Venus	72816-08-23 00:58 G	28316792.49	28316792.54	28316792.58	0.2705	0.2564
Mercury	72825-09-19 12:29 G	28320106.98	28320107.02	28320107.07	0.2699	0.2521
Mercury	72828-03-19 06:15 G	28321018.64	28321018.76	28321018.89	0.2632	0.0916
Mercury	72832-09-12 01:55 G	28322656.47	28322656.58	28322656.68	0.2702	0.1441
Mercury	72841-03-22 05:31 G	28325769.68	28325769.73	28325769.77	0.2633	0.2443
Mercury	72845-09-14 23:31 G	28327407.35	28327407.48	28327407.60	0.2701	0.0025
Mercury	72848-03-14 14:24 G	28328319.00	28328319.10	28328319.20	0.2631	0.1713
Mercury	72858-09-17 20:53 G	28332158.26	28332158.37	28332158.47	0.2700	0.1422
Mercury	72861-03-17 12:58 G	28333069.91	28333070.04	28333070.17	0.2631	0.0282
Mercury	72865-09-10 09:22 G	28334707.87	28334707.89	28334707.91	0.2702	0.2657
Mercury	72874-03-20 11:46 G	28337820.87	28337820.99	28337821.11	0.2632	0.1201
Mercury	72878-09-13 07:12 G	28339458.69	28339458.80	28339458.91	0.2702	0.1160
Mercury	72891-09-16 04:48 G	28344209.57	28344209.70	28344209.82	0.2701	0.0285
Mercury	72894-03-15 19:55 G	28345121.22	28345121.33	28345121.44	0.2631	0.1443
Mercury	72904-09-19 02:10 G	28348960.49	28348960.59	28348960.68	0.2700	0.1684
Mercury	72907-03-19 18:29 G	28349872.14	28349872.27	28349872.40	0.2631	0.0031
Mercury	72911-09-12 14:39 G	28351510.05	28351510.11	28351510.17	0.2702	0.2373

Mercury	72920-03-21 17:17 G	28354623.11	28354623.22	28354623.33	0.2632	0.1485
Mercury	72924-09-14 12:29 G	28356260.90	28356261.02	28356261.14	0.2701	0.0889
Mercury	72927-03-15 03:07 G	28357172.60	28357172.63	28357172.65	0.2630	0.2566
Mercury	72937-09-17 10:05 G	28361011.80	28361011.92	28361012.04	0.2701	0.0553
Venus	72938-02-25 04:05 G	28361172.51	28361172.67	28361172.83	0.2627	0.0038
Mercury	72940-03-17 01:27 G	28361923.44	28361923.56	28361923.67	0.2631	0.1170
Mercury	72950-09-20 07:27 G	28365762.72	28365762.81	28365762.89	0.2700	0.1945
Mercury	72953-03-20 00:00 G	28366674.37	28366674.50	28366674.63	0.2632	0.0276
Mercury	72957-09-12 20:10 G	28368312.26	28368312.34	28368312.42	0.2702	0.2090
Mercury	72966-03-22 22:48 G	28371425.35	28371425.45	28371425.55	0.2632	0.1774
Mercury	72970-09-15 18:00 G	28373063.12	28373063.25	28373063.37	0.2701	0.0616
Mercury	72973-03-15 08:39 G	28373974.80	28373974.86	28373974.92	0.2630	0.2296
Mercury	72983-09-18 15:22 G	28377814.02	28377814.14	28377814.26	0.2701	0.0819
Mercury	72986-03-18 06:58 G	28378725.66	28378725.79	28378725.91	0.2631	0.0903
Mercury	72996-09-20 12:43 G	28382564.96	28382565.03	28382565.09	0.2700	0.2206
Mercury	72999-03-21 05:31 G	28383476.60	28383476.73	28383476.86	0.2632	0.0560

74TH MILLENNIUM CE

This is a list of transits visible from Earth in the 74th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	73003-09-15 01:27 G		28385114.47	28385114.56	28385114.65	0.2702	0.1810	
Mercury	73012-03-24 04:34 G		28388227.60	28388227.69	28388227.77	0.2633	0.2066	
Mercury	73016-09-16 23:17 G		28389865.34	28389865.47	28389865.59	0.2701	0.0342	

Mercury	73019-03-17 13:55 G	28390777.00	28390777.08	28390777.16	0.2630	0.2034
Mercury	73029-09-19 20:39 G	28394616.25	28394616.36	28394616.48	0.2701	0.1090
Mercury	73032-03-19 12:15 G	28395527.89	28395528.01	28395528.14	0.2631	0.0625
Mercury	73042-09-22 18:00 G	28399367.20	28399367.25	28399367.29	0.2700	0.2464
Mercury	73045-03-22 11:03 G	28400278.83	28400278.96	28400279.08	0.2632	0.0842
Mercury	73049-09-15 06:58 G	28401916.68	28401916.79	28401916.89	0.2702	0.1528
Venus	73051-08-28 11:03 G	28402628.82	28402628.96	28402629.11	0.2705	0.1001
Mercury	73058-03-25 10:05 G	28405029.86	28405029.92	28405029.97	0.2633	0.2357
Venus	73059-08-26 00:43 G	28405548.49	28405548.53	28405548.58	0.2706	0.2570
Mercury	73062-09-18 04:34 G	28406667.56	28406667.69	28406667.81	0.2701	0.0064
Mercury	73065-03-17 19:27 G	28407579.21	28407579.31	28407579.41	0.2630	0.1765
Mercury	73075-09-21 01:55 G	28411418.48	28411418.58	28411418.69	0.2700	0.1353
Mercury	73078-03-20 17:46 G	28412330.11	28412330.24	28412330.37	0.2631	0.0347
Mercury	73091-03-23 16:34 G	28417081.07	28417081.19	28417081.31	0.2632	0.1127
Mercury	73095-09-16 12:15 G	28418718.90	28418719.01	28418719.12	0.2702	0.1249
Mercury	73108-09-19 09:51 G	28423469.79	28423469.91	28423470.04	0.2701	0.0217
Mercury	73111-03-20 00:58 G	28424381.43	28424381.54	28424381.64	0.2630	0.1499
Mercury	73121-09-22 07:12 G	28428220.71	28428220.80	28428220.90	0.2700	0.1623
Mercury	73124-03-21 23:17 G	28429132.34	28429132.47	28429132.60	0.2631	0.0068
Mercury	73128-09-14 19:41 G	28430770.27	28430770.32	28430770.37	0.2703	0.2469
Mercury	73137-03-24 22:05 G	28433883.31	28433883.42	28433883.53	0.2632	0.1414
Mercury	73141-09-17 17:31 G	28435521.12	28435521.23	28435521.35	0.2702	0.0970
Mercury	73144-03-17 08:10 G	28436432.83	28436432.84	28436432.85	0.2630	0.2613
Mercury	73154-09-20 15:22 G	28440272.01	28440272.14	28440272.26	0.2701	0.0489
Mercury	73157-03-20 06:15 G	28441183.65	28441183.76	28441183.88	0.2630	0.1231
Mercury	73167-09-23 12:29 G	28445022.94	28445023.02	28445023.11	0.2700	0.1885
Mercury	73170-03-23 04:48 G	28445934.57	28445934.70	28445934.83	0.2631	0.0213
Mercury	73174-09-16 00:58 G	28447572.47	28447572.54	28447572.62	0.2702	0.2185
Venus	73181-02-27 06:43 G	28449928.62	28449928.78	28449928.94	0.2627	0.0253
Mercury	73183-03-26 03:36 G	28450685.55	28450685.65	28450685.75	0.2632	0.1705

Mercury	73187-09-18 23:03 G	28452323.33	28452323.46	28452323.58	0.2702	0.0700
Mercury	73190-03-18 13:27 G	28453235.01	28453235.06	28453235.12	0.2630	0.2358
Mercury	73200-09-20 20:39 G	28457074.24	28457074.36	28457074.48	0.2701	0.0755
Mercury	73203-03-21 11:46 G	28457985.87	28457985.99	28457986.11	0.2631	0.0960
Mercury	73213-09-23 18:00 G	28461825.17	28461825.25	28461825.32	0.2700	0.2147
Mercury	73216-03-23 10:19 G	28462736.80	28462736.93	28462737.06	0.2631	0.0491
Mercury	73220-09-16 06:29 G	28464374.68	28464374.77	28464374.86	0.2702	0.1903
Mercury	73229-03-26 09:07 G	28467487.80	28467487.88	28467487.97	0.2632	0.1991
Mercury	73233-09-19 04:19 G	28469125.56	28469125.68	28469125.80	0.2702	0.0414
Mercury	73236-03-18 18:58 G	28470037.21	28470037.29	28470037.37	0.2630	0.2088
Mercury	73246-09-22 01:55 G	28473876.46	28473876.58	28473876.69	0.2701	0.1019
Mercury	73249-03-21 17:03 G	28474788.09	28474788.21	28474788.34	0.2631	0.0693
Mercury	73259-09-24 23:03 G	28478627.41	28478627.46	28478627.52	0.2700	0.2406
Mercury	73262-03-24 15:51 G	28479539.03	28479539.16	28479539.28	0.2631	0.0773
Mercury	73266-09-17 11:46 G	28481176.89	28481176.99	28481177.09	0.2702	0.1621
Mercury	73275-03-27 14:39 G	28484290.05	28484290.11	28484290.18	0.2632	0.2284
Mercury	73279-09-20 09:36 G	28485927.78	28485927.90	28485928.03	0.2702	0.0151
Mercury	73282-03-20 00:15 G	28486839.42	28486839.51	28486839.61	0.2630	0.1824
Mercury	73292-09-22 07:12 G	28490678.69	28490678.80	28490678.91	0.2701	0.1288
Venus	73294-08-29 11:03 G	28491384.82	28491384.96	28491385.11	0.2706	0.0992
Mercury	73295-03-22 22:34 G	28491590.31	28491590.44	28491590.57	0.2631	0.0415
Venus	73302-08-28 00:43 G	28494304.49	28494304.53	28494304.57	0.2706	0.2590
Mercury	73305-09-26 04:19 G	28495429.67	28495429.68	28495429.70	0.2700	0.2665
Mercury	73308-03-25 21:22 G	28496341.27	28496341.39	28496341.51	0.2632	0.1056
Mercury	73312-09-18 17:17 G	28497979.11	28497979.22	28497979.33	0.2702	0.1337
Mercury	73321-03-28 20:10 G	28501092.32	28501092.34	28501092.37	0.2632	0.2573
Mercury	73325-09-21 15:07 G	28502730.00	28502730.13	28502730.25	0.2701	0.0161
Mercury	73328-03-21 05:46 G	28503641.64	28503641.74	28503641.85	0.2630	0.1552
Mercury	73338-09-24 12:29 G	28507480.92	28507481.02	28507481.12	0.2701	0.1551
Mercury	73341-03-24 04:05 G	28508392.54	28508392.67	28508392.80	0.2631	0.0141

Mercury	73345-09-17 00:29 G	28510030.49	28510030.52	28510030.56	0.2703	0.2566
Mercury	73354-03-27 02:53 G	28513143.51	28513143.62	28513143.73	0.2632	0.1346
Mercury	73358-09-19 22:34 G	28514781.33	28514781.44	28514781.56	0.2702	0.1057
Mercury	73371-09-22 20:24 G	28519532.22	28519532.35	28519532.47	0.2702	0.0408
Mercury	73374-03-22 11:17 G	28520443.85	28520443.97	28520444.08	0.2630	0.1288
Mercury	73384-09-24 17:46 G	28524283.15	28524283.24	28524283.33	0.2701	0.1819
Mercury	73387-03-25 09:36 G	28525194.77	28525194.90	28525195.03	0.2631	0.0158
Mercury	73391-09-18 06:00 G	28526832.68	28526832.75	28526832.82	0.2703	0.2281
Mercury	73400-03-28 08:24 G	28529945.75	28529945.85	28529945.95	0.2632	0.1630
Mercury	73404-09-21 04:05 G	28531583.55	28531583.67	28531583.79	0.2702	0.0774
Mercury	73407-03-21 18:29 G	28532495.22	28532495.27	28532495.32	0.2630	0.2401
Mercury	73417-09-24 01:41 G	28536334.45	28536334.57	28536334.69	0.2701	0.0679
Mercury	73420-03-23 16:34 G	28537246.07	28537246.19	28537246.31	0.2630	0.1018
Venus	73424-03-01 09:36 G	28538684.75	28538684.90	28538685.06	0.2627	0.0545
Mercury	73430-09-26 23:03 G	28541085.38	28541085.46	28541085.54	0.2701	0.2081
Venus	73432-02-28 02:10 G	28541604.55	28541604.59	28541604.64	0.2626	0.2487
Mercury	73433-03-26 15:07 G	28541997.00	28541997.13	28541997.26	0.2631	0.0425
Mercury	73437-09-19 11:17 G	28543634.89	28543634.97	28543635.06	0.2703	0.1996
Mercury	73446-03-29 13:55 G	28546747.99	28546748.08	28546748.17	0.2632	0.1920
Mercury	73450-09-22 09:22 G	28548385.77	28548385.89	28548386.01	0.2702	0.0499
Mercury	73453-03-22 00:00 G	28549297.42	28549297.50	28549297.57	0.2630	0.2144
Mercury	73463-09-25 06:58 G	28553136.68	28553136.79	28553136.91	0.2701	0.0951
Mercury	73466-03-24 22:05 G	28554048.30	28554048.42	28554048.55	0.2630	0.0741
Mercury	73476-09-27 04:19 G	28557887.62	28557887.68	28557887.74	0.2700	0.2348
Mercury	73479-03-27 20:39 G	28558799.23	28558799.36	28558799.49	0.2631	0.0709
Mercury	73483-09-20 16:48 G	28560437.10	28560437.20	28560437.30	0.2703	0.1708
Mercury	73492-03-29 19:27 G	28563550.24	28563550.31	28563550.38	0.2632	0.2206
Mercury	73496-09-22 14:39 G	28565187.99	28565188.11	28565188.24	0.2702	0.0231
Mercury	73499-03-23 05:17 G	28566099.63	28566099.72	28566099.81	0.2630	0.1875
Mercury	73509-09-26 12:15 G	28569938.90	28569939.01	28569939.12	0.2701	0.1218

Mercury	73512-03-26 03:36 G	28570850.52	28570850.65	28570850.78	0.2630	0.0472
Mercury	73522-09-29 09:36 G	28574689.87	28574689.90	28574689.93	0.2700	0.2608
Mercury	73525-03-29 02:10 G	28575601.47	28575601.59	28575601.71	0.2631	0.0991
Mercury	73529-09-21 22:19 G	28577239.32	28577239.43	28577239.53	0.2702	0.1427
Venus	73537-09-01 11:03 G	28580140.81	28580140.96	28580141.11	0.2706	0.0984
Mercury	73538-04-01 00:58 G	28580352.50	28580352.54	28580352.58	0.2632	0.2500
Mercury	73542-09-24 20:10 G	28581990.21	28581990.34	28581990.46	0.2702	0.0088
Mercury	73545-03-24 10:48 G	28582901.84	28582901.95	28582902.05	0.2630	0.1614
Venus	73545-08-30 00:43 G	28583060.49	28583060.53	28583060.58	0.2706	0.2585
Mercury	73555-09-27 17:31 G	28586741.13	28586741.23	28586741.34	0.2701	0.1493
Mercury	73558-03-27 09:07 G	28587652.75	28587652.88	28587653.01	0.2631	0.0204
Mercury	73562-09-20 05:31 G	28589290.71	28589290.73	28589290.74	0.2703	0.2670
Mercury	73571-03-30 07:41 G	28592403.70	28592403.82	28592403.93	0.2631	0.1273
Mercury	73575-09-23 03:36 G	28594041.54	28594041.65	28594041.76	0.2702	0.1144
Mercury	73588-09-25 01:27 G	28598792.43	28598792.56	28598792.68	0.2702	0.0333
Mercury	73591-03-25 16:19 G	28599704.06	28599704.18	28599704.29	0.2630	0.1340
Mercury	73601-09-27 23:03 G	28603543.36	28603543.46	28603543.55	0.2701	0.1756
Mercury	73604-03-27 14:24 G	28604454.97	28604455.10	28604455.23	0.2631	0.0096
Mercury	73608-09-20 10:48 G	28606092.90	28606092.95	28606093.01	0.2703	0.2378
Mercury	73617-03-30 12:58 G	28609205.94	28609206.04	28609206.15	0.2631	0.1556
Mercury	73621-09-23 08:53 G	28610843.75	28610843.87	28610843.99	0.2702	0.0866
Mercury	73624-03-22 23:31 G	28611755.44	28611755.48	28611755.53	0.2629	0.2452
Mercury	73634-09-26 06:43 G	28615594.66	28615594.78	28615594.90	0.2702	0.0602
Mercury	73637-03-25 21:36 G	28616506.28	28616506.40	28616506.52	0.2630	0.1068
Mercury	73647-09-29 04:19 G	28620345.60	28620345.68	28620345.76	0.2701	0.2024
Mercury	73650-03-28 19:55 G	28621257.20	28621257.33	28621257.46	0.2631	0.0369
Mercury	73654-09-21 16:19 G	28622895.10	28622895.18	28622895.26	0.2703	0.2088
Mercury	73663-03-31 18:29 G	28626008.18	28626008.27	28626008.37	0.2632	0.1844
Venus	73667-03-03 12:15 G	28627440.86	28627441.01	28627441.16	0.2626	0.0810
Mercury	73667-09-24 14:24 G	28627645.98	28627646.10	28627646.22	0.2702	0.0581

Mercury	73670-03-24 05:03 G	28628557.64	28628557.71	28628557.78	0.2629	0.2186
Venus	73675-03-01 04:34 G	28630360.61	28630360.69	28630360.78	0.2626	0.2232
Mercury	73680-09-26 12:00 G	28632396.88	28632397.00	28632397.12	0.2702	0.0878
Mercury	73683-03-27 03:07 G	28633308.50	28633308.63	28633308.75	0.2630	0.0799
Mercury	73693-09-29 09:36 G	28637147.83	28637147.90	28637147.96	0.2701	0.2285
Mercury	73696-03-29 01:27 G	28638059.43	28638059.56	28638059.69	0.2631	0.0641
Mercury	73700-09-22 21:51 G	28639697.31	28639697.41	28639697.50	0.2703	0.1802
Mercury	73709-04-02 00:15 G	28642810.43	28642810.51	28642810.58	0.2632	0.2138
Mercury	73713-09-25 19:41 G	28644448.20	28644448.32	28644448.45	0.2702	0.0306
Mercury	73716-03-25 10:19 G	28645359.85	28645359.93	28645360.02	0.2629	0.1928
Mercury	73726-09-28 17:31 G	28649199.11	28649199.23	28649199.34	0.2702	0.1153
Mercury	73729-03-28 08:24 G	28650110.73	28650110.85	28650110.98	0.2630	0.0531
Mercury	73739-10-01 14:53 G	28653950.08	28653950.12	28653950.16	0.2701	0.2552
Mercury	73742-03-31 06:58 G	28654861.66	28654861.79	28654861.91	0.2631	0.0925
Mercury	73746-09-24 03:07 G	28656499.53	28656499.63	28656499.74	0.2703	0.1518
Mercury	73755-04-03 05:46 G	28659612.69	28659612.74	28659612.79	0.2632	0.2422
Mercury	73759-09-27 01:12 G	28661250.42	28661250.55	28661250.67	0.2702	0.0089
Mercury	73762-03-26 15:51 G	28662162.06	28662162.16	28662162.26	0.2630	0.1658
Mercury	73772-09-28 22:48 G	28666001.34	28666001.45	28666001.55	0.2701	0.1422
Mercury	73775-03-29 13:55 G	28666912.95	28666913.08	28666913.21	0.2630	0.0255
Venus	73780-09-02 11:03 G	28668896.81	28668896.96	28668897.11	0.2706	0.0962
Mercury	73788-03-31 12:29 G	28671663.90	28671664.02	28671664.13	0.2631	0.1205
Venus	73788-08-31 00:43 G	28671816.49	28671816.53	28671816.57	0.2706	0.2599
Mercury	73792-09-24 08:24 G	28673301.74	28673301.85	28673301.97	0.2703	0.1236
Mercury	73805-09-28 06:29 G	28678052.64	28678052.77	28678052.89	0.2702	0.0254
Mercury	73808-03-27 21:07 G	28678964.27	28678964.38	28678964.49	0.2630	0.1396
Mercury	73818-10-01 04:05 G	28682803.58	28682803.67	28682803.77	0.2701	0.1693
Mercury	73821-03-30 19:27 G	28683715.18	28683715.31	28683715.44	0.2630	0.0049
Mercury	73825-09-23 15:51 G	28685353.11	28685353.16	28685353.21	0.2703	0.2477
Mercury	73834-04-02 18:00 G	28688466.14	28688466.25	28688466.36	0.2631	0.1490

Mercury	73838-09-26 13:55 G	28690103.96	28690104.08	28690104.20	0.2703	0.0948
Mercury	73841-03-26 04:48 G	28691015.66	28691015.70	28691015.73	0.2629	0.2501
Mercury	73851-09-29 11:46 G	28694854.87	28694854.99	28694855.12	0.2702	0.0535
Mercury	73854-03-29 02:39 G	28695766.49	28695766.61	28695766.72	0.2630	0.1130
Mercury	73864-10-01 09:22 G	28699605.81	28699605.89	28699605.97	0.2701	0.1957
Mercury	73867-04-01 00:43 G	28700517.40	28700517.53	28700517.66	0.2630	0.0298
Mercury	73871-09-24 21:07 G	28702155.31	28702155.38	28702155.45	0.2703	0.2189
Mercury	73880-04-02 23:31 G	28705268.38	28705268.48	28705268.57	0.2631	0.1777
Mercury	73884-09-26 19:27 G	28706906.18	28706906.31	28706906.43	0.2703	0.0674
Mercury	73887-03-27 10:05 G	28707817.85	28707817.92	28707817.98	0.2629	0.2238
Mercury	73897-09-29 17:17 G	28711657.10	28711657.22	28711657.34	0.2702	0.0810
Mercury	73900-03-30 07:55 G	28712568.71	28712568.83	28712568.96	0.2630	0.0861
Venus	73910-03-06 15:07 G	28716196.98	28716197.13	28716197.27	0.2626	0.1093
Mercury	73910-10-03 14:39 G	28716408.04	28716408.11	28716408.18	0.2701	0.2229
Mercury	73913-04-02 06:15 G	28717319.63	28717319.76	28717319.89	0.2631	0.0578
Mercury	73917-09-26 02:39 G	28718957.52	28718957.61	28718957.70	0.2703	0.1902
Venus	73918-03-04 07:27 G	28719116.71	28719116.81	28719116.92	0.2626	0.1946
Mercury	73926-04-05 04:48 G	28722070.62	28722070.70	28722070.79	0.2631	0.2059
Mercury	73930-09-29 00:43 G	28723708.40	28723708.53	28723708.65	0.2703	0.0385
Mercury	73933-03-28 15:22 G	28724620.06	28724620.14	28724620.23	0.2629	0.1976
Mercury	73943-10-01 22:34 G	28728459.32	28728459.44	28728459.55	0.2702	0.1081
Mercury	73946-03-31 13:27 G	28729370.93	28729371.06	28729371.19	0.2630	0.0585
Mercury	73956-10-03 19:55 G	28733210.29	28733210.33	28733210.38	0.2701	0.2491
Mercury	73959-04-03 11:46 G	28734121.87	28734121.99	28734122.11	0.2631	0.0853
Mercury	73963-09-27 07:55 G	28735759.73	28735759.83	28735759.94	0.2703	0.1613
Mercury	73972-04-05 10:19 G	28738872.88	28738872.93	28738872.99	0.2631	0.2351
Mercury	73976-09-29 06:00 G	28740510.63	28740510.75	28740510.88	0.2703	0.0126
Mercury	73979-03-29 20:53 G	28741422.27	28741422.37	28741422.46	0.2629	0.1714
Mercury	73989-10-02 03:51 G	28745261.55	28745261.66	28745261.77	0.2702	0.1350
Mercury	73992-03-31 18:58 G	28746173.16	28746173.29	28746173.42	0.2630	0.0314

75TH MILLENNIUM CE

This is a list of transits visible from Earth in the 75th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	74005-04-03 17:17	G	28750924.10	28750924.22	28750924.34	0.2631	0.1142	
Mercury	74009-09-27 13:27	G	28752561.95	28752562.06	28752562.17	0.2703	0.1321	
Mercury	74022-09-30 11:31	G	28757312.85	28757312.98	28757313.10	0.2702	0.0179	
Venus	74023-09-05 11:03	G	28757652.81	28757652.96	28757653.11	0.2706	0.0959	
Mercury	74025-03-30 02:10	G	28758224.48	28758224.59	28758224.70	0.2629	0.1447	
Venus	74031-09-03 00:58	G	28760572.50	28760572.54	28760572.58	0.2706	0.2598	
Mercury	74035-10-03 09:07	G	28762063.78	28762063.88	28762063.98	0.2702	0.1623	
Mercury	74038-04-02 00:15	G	28762975.38	28762975.51	28762975.64	0.2630	0.0062	
Mercury	74042-09-25 20:39	G	28764613.32	28764613.36	28764613.39	0.2704	0.2581	
Mercury	74051-04-04 22:48	G	28767726.34	28767726.45	28767726.56	0.2631	0.1424	
Mercury	74055-09-28 18:58	G	28769364.17	28769364.29	28769364.40	0.2703	0.1037	
Mercury	74058-03-28 09:51	G	28770275.88	28770275.91	28770275.93	0.2629	0.2550	
Mercury	74068-09-30 16:48	G	28774115.08	28774115.20	28774115.33	0.2702	0.0462	
Mercury	74071-03-31 07:41	G	28775026.70	28775026.82	28775026.93	0.2629	0.1186	
Mercury	74081-10-03 14:24	G	28778866.02	28778866.10	28778866.19	0.2702	0.1898	
Mercury	74084-04-02 05:46	G	28779777.61	28779777.74	28779777.87	0.2630	0.0241	
Mercury	74088-09-26 01:55	G	28781415.52	28781415.58	28781415.65	0.2704	0.2288	
Mercury	74097-04-05 04:19	G	28784528.58	28784528.68	28784528.78	0.2631	0.1708	
Mercury	74101-09-30 00:15	G	28786166.39	28786166.51	28786166.63	0.2703	0.0753	

Mercury	74104-03-29	15:07	G	28787078.07	28787078.13	28787078.19	0.2629	0.2290
Mercury	74114-10-02	22:05	G	28790917.30	28790917.42	28790917.55	0.2702	0.0739
Mercury	74117-04-01	12:58	G	28791828.92	28791829.04	28791829.16	0.2629	0.0913
Mercury	74127-10-05	19:55	G	28795668.25	28795668.33	28795668.40	0.2701	0.2166
Mercury	74130-04-04	11:17	G	28796579.84	28796579.97	28796580.10	0.2630	0.0517
Mercury	74134-09-28	07:27	G	28798217.73	28798217.81	28798217.90	0.2703	0.1996
Mercury	74143-04-07	09:36	G	28801330.82	28801330.90	28801330.99	0.2631	0.1993
Mercury	74147-10-01	05:46	G	28802968.61	28802968.74	28802968.86	0.2703	0.0475
Mercury	74150-03-30	20:24	G	28803880.27	28803880.35	28803880.43	0.2629	0.2030
Venus	74153-03-07	17:31	G	28804953.09	28804953.23	28804953.36	0.2626	0.1355
Mercury	74160-10-03	03:36	G	28807719.53	28807719.65	28807719.76	0.2702	0.1008
Venus	74161-03-05	09:51	G	28807872.79	28807872.91	28807873.03	0.2626	0.1699
Mercury	74163-04-02	18:29	G	28808631.14	28808631.27	28808631.39	0.2630	0.0645
Mercury	74173-10-06	01:12	G	28812470.50	28812470.55	28812470.60	0.2701	0.2434
Mercury	74176-04-04	16:34	G	28813382.07	28813382.19	28813382.32	0.2630	0.0799
Mercury	74180-09-28	12:58	G	28815019.94	28815020.04	28815020.14	0.2703	0.1704
Mercury	74189-04-07	15:07	G	28818133.07	28818133.13	28818133.20	0.2631	0.2278
Mercury	74193-10-01	11:03	G	28819770.84	28819770.96	28819771.09	0.2703	0.0188
Mercury	74196-03-31	01:55	G	28820682.48	28820682.58	28820682.67	0.2629	0.1763
Mercury	74206-10-05	08:53	G	28824521.76	28824521.87	28824521.98	0.2702	0.1282
Mercury	74209-04-03	23:46	G	28825433.36	28825433.49	28825433.62	0.2630	0.0376
Mercury	74219-10-08	06:29	G	28829272.76	28829272.77	28829272.77	0.2701	0.2698
Mercury	74222-04-06	22:05	G	28830184.30	28830184.42	28830184.54	0.2630	0.1071
Mercury	74226-09-30	18:15	G	28831822.16	28831822.26	28831822.37	0.2703	0.1419
Mercury	74235-04-09	20:39	G	28834935.34	28834935.36	28834935.39	0.2631	0.2569
Mercury	74239-10-03	16:19	G	28836573.06	28836573.18	28836573.31	0.2703	0.0136
Mercury	74242-04-02	07:12	G	28837484.70	28837484.80	28837484.91	0.2629	0.1499
Mercury	74252-10-05	14:10	G	28841323.99	28841324.09	28841324.19	0.2702	0.1558
Mercury	74255-04-05	05:17	G	28842235.59	28842235.72	28842235.85	0.2630	0.0095
Mercury	74259-09-29	01:27	G	28843873.55	28843873.56	28843873.57	0.2704	0.2684

Venus	74266-09-07 11:03 G	28846408.81	28846408.96	28846409.11	0.2706	0.0941
Mercury	74268-04-07 03:36 G	28846986.54	28846986.65	28846986.76	0.2630	0.1356
Mercury	74272-09-30 23:46 G	28848624.38	28848624.49	28848624.61	0.2703	0.1127
Venus	74274-09-05 00:43 G	28849328.50	28849328.53	28849328.57	0.2706	0.2616
Mercury	74275-03-31 14:53 G	28849536.10	28849536.12	28849536.14	0.2629	0.2591
Mercury	74285-10-03 21:51 G	28853375.28	28853375.41	28853375.53	0.2703	0.0378
Mercury	74288-04-02 12:43 G	28854286.91	28854287.03	28854287.14	0.2629	0.1231
Mercury	74298-10-06 19:27 G	28858126.22	28858126.31	28858126.41	0.2702	0.1831
Mercury	74301-04-06 10:48 G	28859037.82	28859037.95	28859038.08	0.2630	0.0198
Mercury	74305-09-30 06:58 G	28860675.73	28860675.79	28860675.84	0.2704	0.2387
Mercury	74314-04-09 09:07 G	28863788.77	28863788.88	28863788.98	0.2631	0.1639
Mercury	74318-10-03 05:17 G	28865426.59	28865426.72	28865426.84	0.2703	0.0845
Mercury	74321-04-01 20:10 G	28866338.29	28866338.34	28866338.40	0.2629	0.2337
Mercury	74331-10-06 03:07 G	28870177.51	28870177.63	28870177.75	0.2703	0.0656
Mercury	74334-04-04 18:00 G	28871089.13	28871089.25	28871089.37	0.2629	0.0963
Mercury	74344-10-08 00:58 G	28874928.46	28874928.54	28874928.61	0.2702	0.2100
Mercury	74347-04-07 16:05 G	28875840.04	28875840.17	28875840.30	0.2630	0.0460
Mercury	74351-10-01 12:15 G	28877477.93	28877478.01	28877478.09	0.2704	0.2093
Mercury	74360-04-09 14:39 G	28880591.02	28880591.11	28880591.19	0.2631	0.1927
Mercury	74364-10-03 10:34 G	28882228.82	28882228.94	28882229.07	0.2703	0.0553
Mercury	74367-04-03 01:41 G	28883140.49	28883140.57	28883140.64	0.2629	0.2073
Mercury	74377-10-06 08:39 G	28886979.74	28886979.86	28886979.97	0.2702	0.0937
Mercury	74380-04-04 23:31 G	28887891.35	28887891.48	28887891.60	0.2629	0.0699
Mercury	74390-10-09 06:15 G	28891730.70	28891730.76	28891730.82	0.2702	0.2372
Mercury	74393-04-07 21:36 G	28892642.27	28892642.40	28892642.52	0.2630	0.0733
Venus	74396-03-09 19:55 G	28893709.21	28893709.33	28893709.46	0.2626	0.1625
Mercury	74397-10-01 17:46 G	28894280.14	28894280.24	28894280.33	0.2704	0.1803
Venus	74404-03-07 12:29 G	28896628.88	28896629.02	28896629.15	0.2626	0.1421
Mercury	74406-04-10 20:10 G	28897393.27	28897393.34	28897393.41	0.2631	0.2213
Mercury	74410-10-04 16:05 G	28899031.04	28899031.17	28899031.29	0.2703	0.0287

Mercury	74413-04-03 06:58 G	28899942.70	28899942.79	28899942.88	0.2629	0.1815
Mercury	74423-10-07 13:55 G	28903781.97	28903782.08	28903782.19	0.2702	0.1214
Mercury	74426-04-06 04:48 G	28904693.57	28904693.70	28904693.83	0.2629	0.0427
Mercury	74436-10-09 11:31 G	28908532.96	28908532.98	28908533.00	0.2702	0.2643
Mercury	74439-04-09 03:07 G	28909444.51	28909444.63	28909444.75	0.2630	0.1014
Mercury	74443-10-02 23:17 G	28911082.36	28911082.47	28911082.57	0.2704	0.1513
Mercury	74452-04-11 01:27 G	28914195.53	28914195.56	28914195.60	0.2631	0.2497
Mercury	74456-10-04 21:22 G	28915833.26	28915833.39	28915833.52	0.2703	0.0016
Mercury	74459-04-04 12:15 G	28916744.91	28916745.01	28916745.12	0.2629	0.1552
Mercury	74469-10-07 19:12 G	28920584.20	28920584.30	28920584.41	0.2702	0.1490
Mercury	74472-04-06 10:19 G	28921495.79	28921495.93	28921496.06	0.2629	0.0182
Mercury	74485-04-09 08:24 G	28926246.74	28926246.85	28926246.97	0.2630	0.1288
Mercury	74489-10-03 04:34 G	28927884.58	28927884.69	28927884.80	0.2703	0.1223
Mercury	74502-10-07 02:53 G	28932635.49	28932635.62	28932635.74	0.2703	0.0314
Mercury	74505-04-05 17:46 G	28933547.12	28933547.24	28933547.35	0.2629	0.1284
Venus	74509-09-09 11:03 G	28935164.82	28935164.96	28935165.11	0.2706	0.0938
Mercury	74515-10-10 00:43 G	28937386.43	28937386.53	28937386.62	0.2702	0.1765
Venus	74517-09-07 00:58 G	28938084.50	28938084.54	28938084.58	0.2706	0.2605
Mercury	74518-04-08 15:36 G	28938298.02	28938298.15	28938298.28	0.2630	0.0124
Mercury	74522-10-02 11:31 G	28939935.94	28939935.98	28939936.03	0.2704	0.2494
Mercury	74531-04-11 13:55 G	28943048.98	28943049.08	28943049.18	0.2630	0.1572
Mercury	74535-10-05 10:05 G	28944686.80	28944686.92	28944687.04	0.2704	0.0930
Mercury	74538-04-04 01:27 G	28945598.51	28945598.56	28945598.61	0.2628	0.2375
Mercury	74548-10-07 08:10 G	28949437.72	28949437.84	28949437.96	0.2703	0.0579
Mercury	74551-04-06 23:03 G	28950349.34	28950349.46	28950349.58	0.2629	0.1017
Mercury	74561-10-10 06:00 G	28954188.67	28954188.75	28954188.83	0.2702	0.2037
Mercury	74564-04-08 21:07 G	28955100.25	28955100.38	28955100.51	0.2630	0.0397
Mercury	74568-10-02 17:03 G	28956738.14	28956738.21	28956738.28	0.2704	0.2195
Mercury	74577-04-11 19:27 G	28959851.22	28959851.31	28959851.40	0.2630	0.1857
Mercury	74581-10-05 15:22 G	28961489.02	28961489.14	28961489.27	0.2704	0.0648

Mercury	74584-04-04 06:43 G	28962400.71	28962400.78	28962400.85	0.2628	0.2121
Mercury	74594-10-08 13:27 G	28966239.95	28966240.06	28966240.18	0.2703	0.0867
Mercury	74597-04-07 04:34 G	28967151.56	28967151.69	28967151.81	0.2629	0.0753
Mercury	74607-10-12 11:17 G	28970990.91	28970990.97	28970991.03	0.2702	0.2309
Mercury	74610-04-11 02:39 G	28971902.48	28971902.61	28971902.73	0.2630	0.0678
Mercury	74614-10-04 22:34 G	28973540.35	28973540.44	28973540.53	0.2704	0.1901
Mercury	74623-04-14 00:58 G	28976653.46	28976653.54	28976653.61	0.2630	0.2143
Mercury	74627-10-07 20:53 G	28978291.25	28978291.37	28978291.50	0.2704	0.0352
Mercury	74630-04-06 12:00 G	28979202.91	28979203.00	28979203.09	0.2628	0.1859
Venus	74639-03-12 22:34 G	28982465.33	28982465.44	28982465.55	0.2626	0.1893
Mercury	74640-10-09 18:58 G	28983042.17	28983042.29	28983042.40	0.2703	0.1141
Mercury	74643-04-09 09:51 G	28983953.78	28983953.91	28983954.04	0.2629	0.0480
Venus	74647-03-10 14:39 G	28985384.97	28985385.11	28985385.26	0.2626	0.1172
Mercury	74653-10-12 16:34 G	28987793.16	28987793.19	28987793.23	0.2702	0.2580
Mercury	74656-04-11 07:55 G	28988704.71	28988704.83	28988704.95	0.2630	0.0950
Mercury	74660-10-05 04:05 G	28990342.56	28990342.67	28990342.77	0.2704	0.1609
Mercury	74669-04-14 06:29 G	28993455.72	28993455.77	28993455.81	0.2631	0.2432
Mercury	74673-10-08 02:24 G	28995093.47	28995093.60	28995093.72	0.2703	0.0098
Mercury	74676-04-06 17:31 G	28996005.12	28996005.23	28996005.33	0.2629	0.1601
Mercury	74686-10-11 00:15 G	28999844.41	28999844.51	28999844.62	0.2703	0.1421
Mercury	74689-04-09 15:22 G	29000756.01	29000756.14	29000756.27	0.2629	0.0216
Mercury	74702-04-13 13:27 G	29005506.94	29005507.06	29005507.17	0.2630	0.1231
Mercury	74706-10-07 09:22 G	29007144.78	29007144.89	29007145.01	0.2704	0.1312
Mercury	74719-10-10 07:41 G	29011895.70	29011895.82	29011895.95	0.2703	0.0226
Mercury	74722-04-08 22:48 G	29012807.34	29012807.45	29012807.56	0.2629	0.1334
Mercury	74732-10-12 05:46 G	29016646.64	29016646.74	29016646.83	0.2702	0.1700
Mercury	74735-04-11 20:39 G	29017558.23	29017558.36	29017558.49	0.2629	0.0065
Mercury	74739-10-05 16:19 G	29019196.15	29019196.18	29019196.21	0.2704	0.2595
Mercury	74748-04-13 18:58 G	29022309.18	29022309.29	29022309.39	0.2630	0.1516
Venus	74752-09-11 11:17 G	29023920.82	29023920.97	29023921.11	0.2706	0.0934

Mercury	74752-10-07 14:53 G	29023947.00	29023947.12	29023947.24	0.2704	0.1020
Mercury	74755-04-07 06:29 G	29024858.73	29024858.77	29024858.82	0.2628	0.2428
Venus	74760-09-09 01:12 G	29026840.51	29026840.55	29026840.58	0.2706	0.2620
Mercury	74765-10-10 13:12 G	29028697.92	29028698.05	29028698.17	0.2703	0.0510
Mercury	74768-04-09 04:05 G	29029609.55	29029609.67	29029609.79	0.2629	0.1072
Mercury	74778-10-13 11:03 G	29033448.87	29033448.96	29033449.04	0.2702	0.1975
Mercury	74781-04-12 02:10 G	29034360.46	29034360.59	29034360.72	0.2629	0.0344
Mercury	74785-10-05 21:51 G	29035998.34	29035998.41	29035998.47	0.2704	0.2301
Mercury	74794-04-15 00:15 G	29039111.42	29039111.51	29039111.61	0.2630	0.1794
Mercury	74798-10-08 20:24 G	29040749.23	29040749.35	29040749.47	0.2704	0.0727
Mercury	74801-04-07 12:00 G	29041660.92	29041661.00	29041661.07	0.2628	0.2166
Mercury	74811-10-11 18:29 G	29045500.15	29045500.27	29045500.39	0.2703	0.0787
Mercury	74814-04-10 09:36 G	29046411.77	29046411.90	29046412.02	0.2629	0.0805
Mercury	74824-10-13 16:19 G	29050251.11	29050251.18	29050251.25	0.2702	0.2248
Mercury	74827-04-13 07:27 G	29051162.68	29051162.81	29051162.94	0.2629	0.0611
Mercury	74831-10-07 03:22 G	29052800.55	29052800.64	29052800.72	0.2704	0.2000
Mercury	74840-04-15 05:46 G	29055913.66	29055913.74	29055913.82	0.2630	0.2075
Mercury	74844-10-09 01:41 G	29057551.45	29057551.57	29057551.70	0.2704	0.0445
Mercury	74847-04-08 17:17 G	29058463.13	29058463.22	29058463.30	0.2628	0.1908
Mercury	74857-10-11 23:46 G	29062302.38	29062302.49	29062302.61	0.2703	0.1072
Mercury	74860-04-10 14:53 G	29063214.00	29063214.12	29063214.25	0.2629	0.0531
Mercury	74870-10-14 21:36 G	29067053.36	29067053.40	29067053.45	0.2702	0.2525
Mercury	74873-04-13 12:58 G	29067964.92	29067965.04	29067965.16	0.2629	0.0892
Mercury	74877-10-07 08:53 G	29069602.77	29069602.87	29069602.97	0.2704	0.1703
Venus	74882-03-14 00:58 G	29071221.45	29071221.54	29071221.63	0.2626	0.2168
Mercury	74886-04-16 11:17 G	29072715.91	29072715.97	29072716.02	0.2630	0.2362
Venus	74890-03-11 17:17 G	29074141.07	29074141.22	29074141.37	0.2626	0.0897
Mercury	74890-10-10 07:12 G	29074353.67	29074353.80	29074353.93	0.2704	0.0149
Mercury	74893-04-08 22:34 G	29075265.34	29075265.44	29075265.54	0.2628	0.1640
Mercury	74903-10-14 05:17 G	29079104.61	29079104.72	29079104.83	0.2703	0.1346

Mercury	74906-04-12 20:24 G	29080016.22	29080016.35	29080016.48	0.2629	0.0266
Mercury	74919-04-15 18:15 G	29084767.15	29084767.26	29084767.38	0.2630	0.1176
Mercury	74923-10-09 14:10 G	29086404.99	29086405.09	29086405.20	0.2704	0.1407
Mercury	74936-10-11 12:29 G	29091155.90	29091156.02	29091156.15	0.2704	0.0170
Mercury	74939-04-11 03:51 G	29092067.55	29092067.66	29092067.77	0.2628	0.1384
Mercury	74949-10-14 10:34 G	29095906.84	29095906.94	29095907.04	0.2703	0.1633
Mercury	74952-04-13 01:41 G	29096818.44	29096818.57	29096818.70	0.2629	0.0035
Mercury	74956-10-06 21:07 G	29098456.38	29098456.38	29098456.38	0.2705	0.2703
Mercury	74965-04-15 23:46 G	29101569.38	29101569.49	29101569.60	0.2630	0.1454
Mercury	74969-10-09 19:41 G	29103207.21	29103207.32	29103207.44	0.2704	0.1111
Mercury	74972-04-08 11:46 G	29104118.95	29104118.99	29104119.03	0.2628	0.2465
Mercury	74982-10-12 18:00 G	29107958.13	29107958.25	29107958.38	0.2704	0.0429
Mercury	74985-04-11 09:22 G	29108869.77	29108869.89	29108870.00	0.2628	0.1114
Venus	74995-09-13 11:31 G	29112676.83	29112676.98	29112677.13	0.2706	0.0939
Mercury	74995-10-15 16:05 G	29112709.08	29112709.17	29112709.26	0.2703	0.1909
Mercury	74998-04-14 07:12 G	29113620.67	29113620.80	29113620.92	0.2629	0.0297

76TH MILLENNIUM CE

This is a list of transits visible from Earth in the 76th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	75002-10-09 02:39 G	29115258.55	29115258.61	29115258.66	0.2705	0.2397		
Venus	75003-09-12 01:41 G	29115596.52	29115596.57	29115596.61	0.2706	0.2580		
Mercury	75011-04-18 05:17 G	29118371.62	29118371.72	29118371.81	0.2630	0.1735		

Mercury	75015-10-12 01:12 G	29120009.43	29120009.55	29120009.67	0.2704	0.0820
Mercury	75018-04-10 17:03 G	29120921.14	29120921.21	29120921.28	0.2628	0.2212
Mercury	75028-10-13 23:31 G	29124760.35	29124760.48	29124760.60	0.2703	0.0715
Mercury	75031-04-13 14:39 G	29125671.99	29125672.11	29125672.23	0.2629	0.0848
Mercury	75041-10-16 21:22 G	29129511.32	29129511.39	29129511.46	0.2703	0.2191
Mercury	75044-04-15 12:29 G	29130422.89	29130423.02	29130423.15	0.2629	0.0564
Mercury	75048-10-09 08:10 G	29132060.76	29132060.84	29132060.92	0.2705	0.2100
Mercury	75057-04-18 10:48 G	29135173.86	29135173.95	29135174.03	0.2630	0.2019
Mercury	75061-10-12 06:43 G	29136811.65	29136811.78	29136811.90	0.2704	0.0531
Mercury	75064-04-10 22:19 G	29137723.35	29137723.43	29137723.52	0.2628	0.1950
Mercury	75074-10-15 04:48 G	29141562.58	29141562.70	29141562.82	0.2703	0.0997
Mercury	75077-04-13 19:55 G	29142474.21	29142474.33	29142474.46	0.2629	0.0587
Mercury	75087-10-18 02:39 G	29146313.57	29146313.61	29146313.66	0.2703	0.2465
Mercury	75090-04-16 18:00 G	29147225.12	29147225.25	29147225.37	0.2629	0.0838
Mercury	75094-10-10 13:27 G	29148862.97	29148863.06	29148863.16	0.2704	0.1800
Mercury	75103-04-20 16:05 G	29151976.11	29151976.17	29151976.24	0.2630	0.2307
Mercury	75107-10-14 12:00 G	29153613.87	29153614.00	29153614.13	0.2704	0.0237
Mercury	75110-04-13 03:51 G	29154525.56	29154525.66	29154525.75	0.2628	0.1694
Mercury	75120-10-16 10:19 G	29158364.82	29158364.93	29158365.04	0.2703	0.1284
Mercury	75123-04-16 01:27 G	29159276.43	29159276.56	29159276.68	0.2629	0.0321
Venus	75125-03-17 03:36 G	29159977.59	29159977.65	29159977.70	0.2626	0.2436
Venus	75133-03-14 19:41 G	29162897.16	29162897.32	29162897.47	0.2626	0.0632
Mercury	75136-04-17 23:17 G	29164027.36	29164027.47	29164027.59	0.2629	0.1116
Mercury	75140-10-11 18:58 G	29165665.19	29165665.29	29165665.40	0.2704	0.1505
Mercury	75149-04-20 21:36 G	29168778.38	29168778.40	29168778.42	0.2630	0.2585
Mercury	75153-10-14 17:31 G	29170416.10	29170416.23	29170416.36	0.2704	0.0065
Mercury	75156-04-13 09:07 G	29171327.77	29171327.88	29171327.99	0.2628	0.1422
Mercury	75166-10-17 15:36 G	29175167.05	29175167.15	29175167.25	0.2703	0.1563
Mercury	75169-04-16 06:43 G	29176078.65	29176078.78	29176078.91	0.2629	0.0054
Mercury	75182-04-19 04:48 G	29180829.59	29180829.70	29180829.81	0.2629	0.1391

Mercury	75186-10-13 00:29 G	29182467.40	29182467.52	29182467.63	0.2704	0.1205
Mercury	75189-04-11 17:03 G	29183379.17	29183379.21	29183379.24	0.2628	0.2506
Mercury	75199-10-15 22:48 G	29187218.33	29187218.45	29187218.58	0.2704	0.0354
Mercury	75202-04-14 14:24 G	29188129.99	29188130.10	29188130.22	0.2628	0.1160
Mercury	75212-10-17 21:07 G	29191969.28	29191969.38	29191969.47	0.2703	0.1846
Mercury	75215-04-17 12:15 G	29192880.88	29192881.01	29192881.14	0.2629	0.0240
Mercury	75219-10-11 07:12 G	29194518.76	29194518.80	29194518.85	0.2705	0.2504
Mercury	75228-04-19 10:19 G	29197631.83	29197631.93	29197632.03	0.2629	0.1678
Mercury	75232-10-13 06:00 G	29199269.63	29199269.75	29199269.87	0.2704	0.0905
Mercury	75235-04-12 22:19 G	29200181.37	29200181.43	29200181.49	0.2628	0.2248
Venus	75238-09-15 11:46 G	29201432.85	29201432.99	29201433.14	0.2706	0.0956
Mercury	75245-10-16 04:19 G	29204020.56	29204020.68	29204020.80	0.2704	0.0638
Venus	75246-09-13 01:55 G	29204352.53	29204352.58	29204352.62	0.2706	0.2586
Mercury	75248-04-14 19:41 G	29204932.20	29204932.32	29204932.45	0.2628	0.0898
Mercury	75258-10-19 02:24 G	29208771.52	29208771.60	29208771.67	0.2703	0.2121
Mercury	75261-04-17 17:31 G	29209683.10	29209683.23	29209683.36	0.2629	0.0509
Mercury	75265-10-11 12:43 G	29211320.96	29211321.03	29211321.11	0.2705	0.2199
Mercury	75274-04-20 15:36 G	29214434.07	29214434.15	29214434.24	0.2630	0.1964
Mercury	75278-10-14 11:31 G	29216071.85	29216071.98	29216072.10	0.2704	0.0612
Mercury	75281-04-13 03:36 G	29216983.57	29216983.65	29216983.73	0.2628	0.1992
Mercury	75291-10-17 09:51 G	29220822.79	29220822.91	29220823.03	0.2704	0.0926
Mercury	75294-04-16 01:12 G	29221734.42	29221734.55	29221734.67	0.2628	0.0631
Mercury	75304-10-20 07:41 G	29225573.77	29225573.82	29225573.88	0.2703	0.2406
Mercury	75307-04-19 23:03 G	29226485.33	29226485.46	29226485.58	0.2629	0.0788
Mercury	75311-10-13 18:15 G	29228123.17	29228123.26	29228123.35	0.2705	0.1901
Mercury	75320-04-21 21:07 G	29231236.31	29231236.38	29231236.45	0.2629	0.2241
Mercury	75324-10-15 16:48 G	29232874.08	29232874.20	29232874.33	0.2704	0.0330
Mercury	75327-04-15 08:53 G	29233785.78	29233785.87	29233785.97	0.2628	0.1731
Mercury	75337-10-18 15:07 G	29237625.02	29237625.13	29237625.25	0.2704	0.1213
Mercury	75340-04-17 06:29 G	29238536.64	29238536.77	29238536.90	0.2628	0.0360

Mercury	75350-10-21 13:12 G	29242376.03	29242376.05	29242376.06	0.2703	0.2681
Mercury	75353-04-20 04:19 G	29243287.56	29243287.68	29243287.80	0.2629	0.1059
Mercury	75357-10-13 23:46 G	29244925.39	29244925.49	29244925.59	0.2705	0.1596
Mercury	75366-04-23 02:39 G	29248038.57	29248038.61	29248038.64	0.2630	0.2530
Mercury	75370-10-16 22:19 G	29249676.30	29249676.43	29249676.56	0.2704	0.0026
Mercury	75373-04-15 14:10 G	29250587.99	29250588.09	29250588.20	0.2628	0.1474
Venus	75376-03-15 21:51 G	29251653.26	29251653.41	29251653.57	0.2627	0.0378
Mercury	75383-10-19 20:39 G	29254427.25	29254427.36	29254427.46	0.2703	0.1495
Mercury	75386-04-18 12:00 G	29255338.87	29255339.00	29255339.13	0.2628	0.0116
Mercury	75399-04-21 09:51 G	29260089.80	29260089.91	29260090.02	0.2629	0.1340
Mercury	75403-10-16 05:17 G	29261727.61	29261727.72	29261727.83	0.2705	0.1296
Mercury	75406-04-14 22:19 G	29262639.40	29262639.43	29262639.46	0.2628	0.2547
Mercury	75416-10-18 03:51 G	29266478.53	29266478.66	29266478.79	0.2704	0.0273
Mercury	75419-04-17 19:41 G	29267390.20	29267390.32	29267390.43	0.2628	0.1206
Mercury	75429-10-21 01:55 G	29271229.49	29271229.58	29271229.67	0.2703	0.1777
Mercury	75432-04-19 17:17 G	29272141.09	29272141.22	29272141.35	0.2628	0.0181
Mercury	75436-10-13 12:00 G	29273778.97	29273779.00	29273779.03	0.2705	0.2613
Mercury	75445-04-22 15:07 G	29276892.03	29276892.13	29276892.23	0.2629	0.1618
Mercury	75449-10-16 10:48 G	29278529.83	29278529.95	29278530.07	0.2705	0.0999
Mercury	75452-04-15 03:36 G	29279441.59	29279441.65	29279441.71	0.2627	0.2288
Mercury	75462-10-19 09:07 G	29283280.76	29283280.88	29283281.01	0.2704	0.0564
Mercury	75465-04-18 00:58 G	29284192.42	29284192.54	29284192.66	0.2628	0.0943
Mercury	75475-10-22 07:27 G	29288031.73	29288031.81	29288031.89	0.2703	0.2064
Mercury	75478-04-20 22:34 G	29288943.32	29288943.44	29288943.57	0.2629	0.0462
Venus	75481-09-17 12:15 G	29290188.86	29290189.01	29290189.15	0.2706	0.0967
Mercury	75482-10-14 17:31 G	29290581.16	29290581.23	29290581.29	0.2705	0.2306
Venus	75489-09-15 02:24 G	29293108.55	29293108.60	29293108.65	0.2706	0.2545
Mercury	75491-04-23 20:39 G	29293694.27	29293694.36	29293694.45	0.2629	0.1897
Mercury	75495-10-17 16:19 G	29295332.05	29295332.18	29295332.30	0.2705	0.0708
Mercury	75498-04-16 08:53 G	29296243.79	29296243.87	29296243.95	0.2628	0.2029

Mercury	75508-10-20 14:39 G	29300082.99	29300083.11	29300083.23	0.2704	0.0849
Mercury	75511-04-20 06:15 G	29300994.64	29300994.76	29300994.89	0.2628	0.0677
Mercury	75521-10-23 12:43 G	29304833.97	29304834.03	29304834.09	0.2703	0.2340
Mercury	75524-04-22 04:05 G	29305745.54	29305745.67	29305745.79	0.2629	0.0730
Mercury	75528-10-15 23:03 G	29307383.37	29307383.46	29307383.54	0.2705	0.1998
Mercury	75537-04-25 01:55 G	29310496.51	29310496.58	29310496.66	0.2629	0.2182
Mercury	75541-10-18 21:36 G	29312134.28	29312134.40	29312134.53	0.2705	0.0408
Mercury	75544-04-17 14:10 G	29313046.00	29313046.09	29313046.18	0.2628	0.1772
Mercury	75554-10-21 19:55 G	29316885.22	29316885.33	29316885.45	0.2704	0.1137
Mercury	75557-04-20 11:46 G	29317796.86	29317796.99	29317797.11	0.2628	0.0408
Mercury	75567-10-24 18:00 G	29321636.23	29321636.25	29321636.28	0.2703	0.2625
Mercury	75570-04-23 09:22 G	29322547.77	29322547.89	29322548.01	0.2629	0.1013
Mercury	75574-10-17 04:34 G	29324185.59	29324185.69	29324185.79	0.2705	0.1693
Mercury	75583-04-26 07:27 G	29327298.77	29327298.81	29327298.85	0.2629	0.2468
Mercury	75587-10-20 03:07 G	29328936.50	29328936.63	29328936.76	0.2704	0.0112
Mercury	75590-04-18 19:27 G	29329848.21	29329848.31	29329848.42	0.2628	0.1512
Mercury	75600-10-22 01:27 G	29333687.45	29333687.56	29333687.67	0.2704	0.1425
Mercury	75603-04-21 17:03 G	29334599.08	29334599.21	29334599.34	0.2628	0.0138
Mercury	75616-04-23 14:53 G	29339350.00	29339350.12	29339350.23	0.2629	0.1284
Venus	75619-03-19 00:15 G	29340409.35	29340409.51	29340409.67	0.2627	0.0107
Mercury	75620-10-17 10:05 G	29340987.81	29340987.92	29340988.03	0.2705	0.1395
Mercury	75623-04-17 03:36 G	29341899.63	29341899.65	29341899.67	0.2627	0.2586
Mercury	75633-10-20 08:39 G	29345738.73	29345738.86	29345738.99	0.2704	0.0190
Mercury	75636-04-19 00:43 G	29346650.42	29346650.53	29346650.65	0.2628	0.1254
Mercury	75646-10-23 06:58 G	29350489.69	29350489.79	29350489.89	0.2704	0.1713
Mercury	75649-04-21 22:19 G	29351401.30	29351401.43	29351401.56	0.2628	0.0141
Mercury	75662-04-24 20:10 G	29356152.24	29356152.34	29356152.45	0.2629	0.1566
Mercury	75666-10-18 15:22 G	29357790.03	29357790.14	29357790.26	0.2705	0.1096
Mercury	75669-04-17 08:53 G	29358701.81	29358701.87	29358701.92	0.2627	0.2330
Mercury	75679-10-21 13:55 G	29362540.96	29362541.08	29362541.21	0.2704	0.0490

Mercury	75682-04-20 06:15 G	29363452.64	29363452.76	29363452.87	0.2628	0.0989
Mercury	75692-10-23 12:15 G	29367291.93	29367292.01	29367292.10	0.2704	0.1998
Mercury	75695-04-23 03:36 G	29368203.53	29368203.65	29368203.78	0.2628	0.0415
Mercury	75699-10-16 22:05 G	29369841.37	29369841.42	29369841.48	0.2705	0.2410
Mercury	75708-04-26 01:41 G	29372954.48	29372954.57	29372954.66	0.2629	0.1841
Mercury	75712-10-19 20:53 G	29374592.25	29374592.37	29374592.50	0.2705	0.0793
Mercury	75715-04-19 14:10 G	29375504.01	29375504.09	29375504.16	0.2627	0.2075
Venus	75724-09-19 12:43 G	29378944.88	29378945.03	29378945.18	0.2706	0.0987
Mercury	75725-10-22 19:27 G	29379343.19	29379343.31	29379343.43	0.2704	0.0772
Mercury	75728-04-21 11:31 G	29380254.85	29380254.98	29380255.10	0.2628	0.0723
Venus	75732-09-17 02:39 G	29381864.56	29381864.61	29381864.67	0.2705	0.2533
Mercury	75738-10-25 17:46 G	29384094.17	29384094.24	29384094.30	0.2704	0.2280
Mercury	75741-04-24 09:07 G	29385005.75	29385005.88	29385006.00	0.2628	0.0678
Mercury	75745-10-18 03:36 G	29386643.57	29386643.65	29386643.73	0.2705	0.2103
Mercury	75754-04-27 06:58 G	29389756.72	29389756.79	29389756.87	0.2629	0.2128
Mercury	75758-10-21 02:24 G	29391394.48	29391394.60	29391394.73	0.2705	0.0494
Mercury	75761-04-19 19:27 G	29392306.22	29392306.31	29392306.40	0.2627	0.1812
Mercury	75771-10-24 00:58 G	29396145.42	29396145.54	29396145.66	0.2704	0.1065
Mercury	75774-04-22 16:48 G	29397057.07	29397057.20	29397057.33	0.2628	0.0454
Mercury	75784-10-25 23:03 G	29400896.42	29400896.46	29400896.50	0.2703	0.2561
Mercury	75787-04-25 14:24 G	29401807.98	29401808.10	29401808.22	0.2629	0.0951
Mercury	75791-10-19 09:07 G	29403445.78	29403445.88	29403445.98	0.2705	0.1799
Mercury	75800-04-28 12:29 G	29406558.97	29406559.02	29406559.07	0.2629	0.2409
Mercury	75804-10-22 07:55 G	29408196.70	29408196.83	29408196.96	0.2705	0.0196
Mercury	75807-04-22 00:43 G	29409108.43	29409108.53	29409108.63	0.2627	0.1553
Mercury	75817-10-25 06:29 G	29412947.66	29412947.77	29412947.88	0.2704	0.1355
Mercury	75820-04-23 22:05 G	29413859.29	29413859.42	29413859.55	0.2628	0.0197
Mercury	75833-04-26 19:55 G	29418610.22	29418610.33	29418610.44	0.2629	0.1233
Mercury	75837-10-20 14:39 G	29420248.00	29420248.11	29420248.22	0.2705	0.1492
Mercury	75840-04-19 08:53 G	29421159.87	29421159.87	29421159.88	0.2627	0.2619

Mercury	75850-10-23 13:27 G	29424998.93	29424999.06	29424999.19	0.2705	0.0113
Mercury	75853-04-22 06:00 G	29425910.64	29425910.75	29425910.86	0.2627	0.1293
Venus	75862-03-21 02:24 G	29429165.44	29429165.60	29429165.76	0.2627	0.0145
Mercury	75863-10-26 11:46 G	29429749.89	29429749.99	29429750.09	0.2704	0.1641
Mercury	75866-04-25 03:36 G	29430661.52	29430661.65	29430661.77	0.2628	0.0112
Mercury	75879-04-28 01:12 G	29435412.45	29435412.55	29435412.66	0.2629	0.1511
Mercury	75883-10-21 20:10 G	29437050.22	29437050.34	29437050.46	0.2705	0.1188
Mercury	75886-04-20 14:10 G	29437962.04	29437962.09	29437962.14	0.2627	0.2370
Mercury	75896-10-23 18:58 G	29441801.16	29441801.29	29441801.41	0.2705	0.0410
Mercury	75899-04-23 11:17 G	29442712.86	29442712.97	29442713.09	0.2628	0.1030
Mercury	75909-10-27 17:17 G	29446552.13	29446552.22	29446552.30	0.2704	0.1929
Mercury	75912-04-26 08:53 G	29447463.74	29447463.87	29447464.00	0.2628	0.0359
Mercury	75916-10-20 02:39 G	29449101.57	29449101.61	29449101.66	0.2705	0.2520
Mercury	75925-04-29 06:43 G	29452214.69	29452214.78	29452214.87	0.2629	0.1793
Mercury	75929-10-23 01:41 G	29453852.45	29453852.57	29453852.69	0.2705	0.0882
Mercury	75932-04-21 19:27 G	29454764.24	29454764.31	29454764.38	0.2627	0.2112
Mercury	75942-10-26 00:15 G	29458603.39	29458603.51	29458603.64	0.2704	0.0701
Mercury	75945-04-24 16:48 G	29459515.07	29459515.20	29459515.32	0.2628	0.0771
Mercury	75955-10-28 22:34 G	29463354.37	29463354.44	29463354.51	0.2704	0.2215
Mercury	75958-04-27 14:10 G	29464265.97	29464266.09	29464266.22	0.2628	0.0634
Mercury	75962-10-21 08:10 G	29465903.77	29465903.84	29465903.92	0.2705	0.2209
Venus	75967-09-22 12:58 G	29467700.89	29467701.04	29467701.19	0.2706	0.0989
Mercury	75971-04-30 12:00 G	29469016.93	29469017.00	29469017.08	0.2629	0.2074
Venus	75975-09-20 03:22 G	29470620.58	29470620.64	29470620.69	0.2705	0.2510
Mercury	75975-10-24 07:12 G	29470654.67	29470654.80	29470654.92	0.2705	0.0583
Mercury	75978-04-23 00:44 G	29471566.44	29471566.53	29471566.62	0.2627	0.1859
Mercury	75988-10-26 05:46 G	29475405.62	29475405.74	29475405.86	0.2704	0.0989
Mercury	75991-04-25 22:05 G	29476317.29	29476317.42	29476317.54	0.2628	0.0508

77TH MILLENNIUM CE

This is a list of transits visible from Earth in the 77th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	76001-10-29 04:05	G	29480156.62	29480156.67	29480156.71	0.2704	0.2501	
Mercury	76004-04-27 19:41	G	29481068.20	29481068.32	29481068.44	0.2628	0.0906	
Mercury	76008-10-21 13:41	G	29482705.98	29482706.07	29482706.16	0.2705	0.1902	
Mercury	76017-04-30 17:32	G	29485819.17	29485819.23	29485819.28	0.2629	0.2352	
Mercury	76021-10-24 12:44	G	29487456.90	29487457.03	29487457.16	0.2705	0.0283	
Mercury	76024-04-23 06:00	G	29488368.65	29488368.75	29488368.85	0.2627	0.1597	
Mercury	76034-10-27 11:03	G	29492207.85	29492207.96	29492208.08	0.2704	0.1284	
Mercury	76037-04-26 03:22	G	29493119.51	29493119.64	29493119.77	0.2628	0.0234	
Mercury	76050-04-29 00:58	G	29497870.43	29497870.54	29497870.66	0.2628	0.1177	
Mercury	76054-10-22 19:12	G	29499508.20	29499508.30	29499508.41	0.2705	0.1597	
Mercury	76067-10-25 18:15	G	29504259.13	29504259.26	29504259.38	0.2705	0.0095	
Mercury	76070-04-24 11:17	G	29505170.86	29505170.97	29505171.08	0.2627	0.1336	
Mercury	76080-10-27 16:34	G	29509010.09	29509010.19	29509010.29	0.2704	0.1569	
Mercury	76083-04-27 08:39	G	29509921.73	29509921.86	29509921.99	0.2628	0.0068	
Mercury	76096-04-29 06:15	G	29514672.66	29514672.76	29514672.87	0.2628	0.1457	
Mercury	76100-10-24 00:44	G	29516310.42	29516310.53	29516310.65	0.2705	0.1288	
Mercury	76103-04-23 19:27	G	29517222.26	29517222.31	29517222.36	0.2627	0.2405	
Venus	76105-03-23 04:34	G	29517921.53	29517921.69	29517921.85	0.2627	0.0399	
Mercury	76113-10-26 23:32	G	29521061.36	29521061.48	29521061.61	0.2705	0.0322	
Mercury	76116-04-25 16:34	G	29521973.08	29521973.19	29521973.31	0.2627	0.1072	

Mercury	76126-10-29 22:05 G	29525812.33	29525812.42	29525812.51	0.2704	0.1859
Mercury	76129-04-28 14:10 G	29526723.96	29526724.09	29526724.21	0.2628	0.0320
Mercury	76133-10-22 07:12 G	29528361.78	29528361.80	29528361.83	0.2706	0.2628
Mercury	76142-05-01 11:46 G	29531474.89	29531474.99	29531475.08	0.2628	0.1733
Mercury	76146-10-25 06:15 G	29533112.64	29533112.76	29533112.88	0.2705	0.0984
Mercury	76149-04-24 00:44 G	29534024.46	29534024.53	29534024.60	0.2627	0.2152
Mercury	76159-10-28 05:03 G	29537863.59	29537863.71	29537863.84	0.2705	0.0612
Mercury	76162-04-26 21:51 G	29538775.29	29538775.41	29538775.53	0.2627	0.0810
Mercury	76172-10-30 03:22 G	29542614.57	29542614.64	29542614.72	0.2704	0.2149
Mercury	76175-04-29 19:27 G	29543526.18	29543526.31	29543526.43	0.2628	0.0583
Mercury	76179-10-23 12:44 G	29545163.97	29545164.03	29545164.10	0.2706	0.2319
Mercury	76188-05-01 17:03 G	29548277.13	29548277.21	29548277.30	0.2628	0.2017
Mercury	76192-10-25 11:46 G	29549914.87	29549914.99	29549915.12	0.2705	0.0680
Mercury	76195-04-25 06:00 G	29550826.67	29550826.75	29550826.84	0.2627	0.1891
Mercury	76205-10-29 10:34 G	29554665.82	29554665.94	29554666.06	0.2705	0.0910
Mercury	76208-04-28 03:22 G	29555577.51	29555577.64	29555577.76	0.2627	0.0546
Venus	76210-09-24 13:41 G	29556456.92	29556457.07	29556457.21	0.2705	0.1026
Venus	76218-09-22 03:51 G	29559376.60	29559376.66	29559376.72	0.2705	0.2477
Mercury	76218-11-01 08:53 G	29559416.82	29559416.87	29559416.92	0.2704	0.2436
Mercury	76221-05-01 00:44 G	29560328.41	29560328.53	29560328.65	0.2628	0.0853
Mercury	76225-10-24 18:29 G	29561966.18	29561966.27	29561966.35	0.2706	0.2006
Mercury	76234-05-03 22:34 G	29565079.38	29565079.44	29565079.50	0.2629	0.2295
Mercury	76238-10-27 17:17 G	29566717.09	29566717.22	29566717.35	0.2705	0.0377
Mercury	76241-04-26 11:17 G	29567628.87	29567628.97	29567629.07	0.2627	0.1638
Mercury	76251-10-30 16:05 G	29571468.05	29571468.17	29571468.28	0.2705	0.1208
Mercury	76254-04-29 08:39 G	29572379.73	29572379.86	29572379.98	0.2628	0.0277
Mercury	76267-05-02 06:00 G	29577130.64	29577130.75	29577130.87	0.2628	0.1131
Mercury	76271-10-26 00:00 G	29578768.40	29578768.50	29578768.60	0.2706	0.1695
Mercury	76280-05-04 03:51 G	29581881.64	29581881.66	29581881.68	0.2629	0.2581
Mercury	76284-10-27 22:48 G	29583519.32	29583519.45	29583519.58	0.2705	0.0075

Mercury	76287-04-27 16:34 G	29584431.08	29584431.19	29584431.30	0.2627	0.1374
Mercury	76297-10-30 21:22 G	29588270.29	29588270.39	29588270.50	0.2704	0.1499
Mercury	76300-04-30 13:56 G	29589181.95	29589182.08	29589182.21	0.2627	0.0040
Mercury	76313-05-03 11:32 G	29593932.87	29593932.98	29593933.08	0.2628	0.1405
Mercury	76317-10-27 05:32 G	29595570.62	29595570.73	29595570.84	0.2705	0.1388
Mercury	76320-04-26 00:44 G	29596482.49	29596482.53	29596482.58	0.2627	0.2446
Mercury	76330-10-30 04:20 G	29600321.55	29600321.68	29600321.81	0.2705	0.0231
Mercury	76333-04-28 21:51 G	29601233.30	29601233.41	29601233.52	0.2627	0.1118
Mercury	76343-11-02 02:53 G	29605072.53	29605072.62	29605072.72	0.2704	0.1793
Mercury	76346-05-01 19:12 G	29605984.17	29605984.30	29605984.43	0.2628	0.0260
Venus	76348-03-25 06:44 G	29606677.62	29606677.78	29606677.93	0.2627	0.0645
Venus	76356-03-22 22:20 G	29609597.38	29609597.43	29609597.48	0.2628	0.2478
Mercury	76359-05-04 16:48 G	29610735.10	29610735.20	29610735.30	0.2628	0.1681
Mercury	76363-10-28 11:03 G	29612372.84	29612372.96	29612373.08	0.2706	0.1081
Mercury	76366-04-27 06:00 G	29613284.69	29613284.75	29613284.82	0.2627	0.2186
Mercury	76376-10-30 09:51 G	29617123.78	29617123.91	29617124.04	0.2705	0.0533
Mercury	76379-04-30 03:08 G	29618035.51	29618035.63	29618035.75	0.2627	0.0853
Mercury	76389-11-02 08:24 G	29621874.77	29621874.85	29621874.93	0.2704	0.2084
Mercury	76392-05-02 00:29 G	29622786.39	29622786.52	29622786.65	0.2628	0.0528
Mercury	76396-10-25 17:17 G	29624424.17	29624424.22	29624424.28	0.2706	0.2428
Mercury	76405-05-04 22:05 G	29627537.34	29627537.42	29627537.51	0.2628	0.1959
Mercury	76409-10-28 16:34 G	29629175.06	29629175.19	29629175.31	0.2705	0.0780
Mercury	76412-04-27 11:17 G	29630086.89	29630086.97	29630087.06	0.2627	0.1934
Mercury	76422-10-31 15:22 G	29633926.01	29633926.14	29633926.26	0.2705	0.0832
Mercury	76425-04-30 08:24 G	29634837.73	29634837.85	29634837.98	0.2627	0.0588
Mercury	76435-11-03 13:41 G	29638677.02	29638677.07	29638677.13	0.2704	0.2374
Mercury	76438-05-03 06:00 G	29639588.62	29639588.75	29639588.87	0.2628	0.0811
Mercury	76442-10-26 22:48 G	29641226.37	29641226.45	29641226.53	0.2706	0.2117
Mercury	76451-05-06 03:36 G	29644339.58	29644339.65	29644339.72	0.2628	0.2241
Venus	76453-09-25 13:56 G	29645212.94	29645213.08	29645213.23	0.2705	0.1027

Mercury	76455-10-29 22:05 G	29645977.29	29645977.42	29645977.54	0.2705	0.0466
Mercury	76458-04-28 16:34 G	29646889.10	29646889.19	29646889.29	0.2627	0.1672
Venus	76461-09-23 04:20 G	29648132.62	29648132.68	29648132.75	0.2704	0.2455
Mercury	76468-10-31 20:53 G	29650728.25	29650728.37	29650728.48	0.2705	0.1131
Mercury	76471-05-01 13:41 G	29651639.95	29651640.07	29651640.20	0.2627	0.0332
Mercury	76481-11-03 19:12 G	29655479.28	29655479.30	29655479.32	0.2704	0.2659
Mercury	76484-05-03 11:17 G	29656390.85	29656390.97	29656391.09	0.2628	0.1080
Mercury	76488-10-27 04:34 G	29658028.59	29658028.69	29658028.78	0.2706	0.1799
Mercury	76497-05-06 09:08 G	29661141.84	29661141.88	29661141.91	0.2628	0.2529
Mercury	76501-10-31 03:36 G	29662779.52	29662779.65	29662779.78	0.2705	0.0169
Mercury	76504-04-29 21:51 G	29663691.31	29663691.41	29663691.52	0.2627	0.1418
Mercury	76514-11-03 02:10 G	29667530.49	29667530.59	29667530.70	0.2705	0.1429
Mercury	76517-05-02 18:58 G	29668442.17	29668442.29	29668442.42	0.2627	0.0107
Mercury	76530-05-05 16:34 G	29673193.08	29673193.19	29673193.30	0.2628	0.1359
Mercury	76534-10-29 10:05 G	29674830.81	29674830.92	29674831.03	0.2706	0.1490
Mercury	76537-04-28 06:15 G	29675742.72	29675742.76	29675742.80	0.2626	0.2478
Mercury	76547-11-01 09:08 G	29679581.75	29679581.88	29679582.01	0.2705	0.0154
Mercury	76550-05-01 03:08 G	29680493.52	29680493.63	29680493.75	0.2627	0.1154
Mercury	76560-11-03 07:41 G	29684332.72	29684332.82	29684332.92	0.2705	0.1721
Mercury	76563-05-04 00:29 G	29685244.39	29685244.52	29685244.64	0.2627	0.0222
Mercury	76576-05-05 21:51 G	29689995.31	29689995.41	29689995.52	0.2628	0.1635
Mercury	76580-10-29 15:36 G	29691633.03	29691633.15	29691633.27	0.2706	0.1177
Mercury	76583-04-29 11:32 G	29692544.91	29692544.98	29692545.04	0.2626	0.2229
Venus	76591-03-27 08:39 G	29695433.71	29695433.86	29695434.01	0.2628	0.0884
Mercury	76593-11-01 14:39 G	29696383.98	29696384.11	29696384.23	0.2705	0.0456
Mercury	76596-05-01 08:24 G	29697295.73	29697295.85	29697295.97	0.2627	0.0895
Venus	76599-03-25 00:29 G	29698353.44	29698353.52	29698353.60	0.2628	0.2224
Mercury	76606-11-05 13:12 G	29701134.96	29701135.05	29701135.13	0.2705	0.2016
Mercury	76609-05-05 05:46 G	29702046.61	29702046.74	29702046.87	0.2627	0.0490
Mercury	76613-10-28 21:51 G	29703684.37	29703684.41	29703684.45	0.2706	0.2542

Mercury	76622-05-08 03:22 G	29706797.55	29706797.64	29706797.73	0.2628	0.1912
Mercury	76626-10-31 21:08 G	29708435.26	29708435.38	29708435.50	0.2706	0.0863
Mercury	76629-04-30 16:34 G	29709347.11	29709347.19	29709347.28	0.2627	0.1973
Mercury	76639-11-03 19:56 G	29713186.21	29713186.33	29713186.46	0.2705	0.0760
Mercury	76642-05-03 13:41 G	29714097.95	29714098.07	29714098.20	0.2627	0.0630
Mercury	76652-11-05 18:29 G	29717937.21	29717937.27	29717937.34	0.2705	0.2306
Mercury	76655-05-06 11:03 G	29718848.84	29718848.96	29718849.08	0.2627	0.0756
Mercury	76659-10-30 03:22 G	29720486.57	29720486.64	29720486.72	0.2706	0.2222
Mercury	76668-05-08 08:39 G	29723599.79	29723599.86	29723599.93	0.2628	0.2195
Mercury	76672-11-01 02:39 G	29725237.48	29725237.61	29725237.74	0.2706	0.0557
Mercury	76675-05-01 21:51 G	29726149.32	29726149.41	29726149.51	0.2627	0.1715
Mercury	76685-11-04 01:27 G	29729988.45	29729988.56	29729988.68	0.2705	0.1055
Mercury	76688-05-03 18:58 G	29730900.17	29730900.29	29730900.42	0.2627	0.0369
Venus	76696-09-27 14:39 G	29733968.97	29733969.11	29733969.26	0.2705	0.1076
Mercury	76698-11-07 00:00 G	29734739.47	29734739.50	29734739.53	0.2705	0.2601
Mercury	76701-05-07 16:20 G	29735651.07	29735651.18	29735651.30	0.2628	0.1038
Venus	76704-09-26 05:17 G	29736888.65	29736888.72	29736888.79	0.2704	0.2406
Mercury	76705-10-31 08:53 G	29737288.78	29737288.87	29737288.97	0.2706	0.1912
Mercury	76714-05-10 14:10 G	29740402.05	29740402.09	29740402.13	0.2628	0.2471
Mercury	76718-11-03 08:10 G	29742039.71	29742039.84	29742039.97	0.2706	0.0249
Mercury	76721-05-03 03:08 G	29742951.53	29742951.63	29742951.74	0.2627	0.1453
Mercury	76731-11-06 06:58 G	29746790.68	29746790.79	29746790.90	0.2705	0.1351
Mercury	76734-05-06 00:29 G	29747702.39	29747702.52	29747702.64	0.2627	0.0121
Mercury	76747-05-08 21:51 G	29752453.30	29752453.41	29752453.52	0.2628	0.1308
Mercury	76751-11-01 14:39 G	29754091.00	29754091.11	29754091.21	0.2706	0.1588
Mercury	76754-05-01 11:32 G	29755002.95	29755002.98	29755003.02	0.2626	0.2513
Mercury	76764-11-03 13:41 G	29758841.94	29758842.07	29758842.20	0.2706	0.0056
Mercury	76767-05-04 08:24 G	29759753.74	29759753.85	29759753.97	0.2627	0.1196
Mercury	76777-11-06 12:29 G	29763592.92	29763593.02	29763593.12	0.2705	0.1647
Mercury	76780-05-06 05:46 G	29764504.61	29764504.74	29764504.87	0.2627	0.0182

Mercury	76793-05-09 03:08 G	29769255.53	29769255.63	29769255.73	0.2628	0.1589
Mercury	76797-11-01 20:10 G	29770893.23	29770893.34	29770893.46	0.2706	0.1274
Mercury	76800-05-01 16:48 G	29771805.14	29771805.20	29771805.26	0.2626	0.2261
Mercury	76810-11-04 19:12 G	29775644.17	29775644.30	29775644.43	0.2706	0.0368
Mercury	76813-05-04 13:41 G	29776555.96	29776556.07	29776556.19	0.2627	0.0932
Mercury	76823-11-07 18:00 G	29780395.16	29780395.25	29780395.33	0.2705	0.1945
Mercury	76826-05-07 11:03 G	29781306.83	29781306.96	29781307.08	0.2627	0.0445
Mercury	76830-10-31 02:24 G	29782944.58	29782944.60	29782944.62	0.2706	0.2651
Venus	76834-03-29 10:34 G	29784189.80	29784189.94	29784190.09	0.2628	0.1140
Mercury	76839-05-10 08:24 G	29786057.76	29786057.85	29786057.94	0.2628	0.1866
Venus	76842-03-27 02:24 G	29787109.49	29787109.60	29787109.70	0.2629	0.2005
Mercury	76843-11-03 01:41 G	29787695.45	29787695.57	29787695.69	0.2706	0.0960
Mercury	76846-05-02 22:05 G	29788607.34	29788607.42	29788607.50	0.2626	0.2005
Mercury	76856-11-05 00:44 G	29792446.41	29792446.53	29792446.66	0.2705	0.0670
Mercury	76859-05-05 18:58 G	29793358.17	29793358.29	29793358.42	0.2627	0.0674
Mercury	76869-11-07 23:17 G	29797197.41	29797197.47	29797197.54	0.2705	0.2248
Mercury	76872-05-07 16:20 G	29798109.06	29798109.18	29798109.30	0.2627	0.0719
Mercury	76876-10-31 07:56 G	29799746.77	29799746.83	29799746.90	0.2706	0.2332
Mercury	76885-05-10 13:56 G	29802860.00	29802860.08	29802860.15	0.2628	0.2144
Mercury	76889-11-03 07:12 G	29804497.68	29804497.80	29804497.93	0.2706	0.0653
Mercury	76892-05-03 03:22 G	29805409.55	29805409.64	29805409.73	0.2626	0.1747
Mercury	76902-11-07 06:15 G	29809248.64	29809248.76	29809248.88	0.2705	0.0976
Mercury	76905-05-07 00:29 G	29810160.39	29810160.52	29810160.64	0.2627	0.0407
Mercury	76915-11-10 04:48 G	29813999.66	29813999.70	29813999.74	0.2705	0.2538
Mercury	76918-05-09 21:36 G	29814911.28	29814911.40	29814911.52	0.2627	0.0987
Mercury	76922-11-02 13:41 G	29816548.98	29816549.07	29816549.15	0.2706	0.2011
Mercury	76931-05-12 19:12 G	29819662.25	29819662.30	29819662.35	0.2628	0.2423
Mercury	76935-11-05 12:44 G	29821299.90	29821300.03	29821300.16	0.2706	0.0343
Mercury	76938-05-05 08:39 G	29822211.75	29822211.86	29822211.96	0.2626	0.1492
Venus	76939-09-30 15:22 G	29822725.00	29822725.14	29822725.29	0.2704	0.1109

Venus	76947-09-28 06:00 G	29825644.67	29825644.75	29825644.82	0.2704	0.2362
Mercury	76948-11-07 11:46 G	29826050.87	29826050.99	29826051.10	0.2705	0.1275
Mercury	76951-05-08 05:46 G	29826962.61	29826962.74	29826962.86	0.2627	0.0160
Mercury	76964-05-10 02:53 G	29831713.51	29831713.62	29831713.74	0.2627	0.1267
Mercury	76968-11-02 19:12 G	29833351.20	29833351.30	29833351.40	0.2706	0.1695
Mercury	76971-05-03 17:03 G	29834263.18	29834263.21	29834263.24	0.2626	0.2547
Mercury	76981-11-05 18:15 G	29838102.13	29838102.26	29838102.39	0.2706	0.0096
Mercury	76984-05-05 13:56 G	29839013.97	29839014.08	29839014.19	0.2627	0.1227
Mercury	76994-11-08 17:17 G	29842853.11	29842853.22	29842853.32	0.2705	0.1579
Mercury	76997-05-08 11:03 G	29843764.83	29843764.96	29843765.08	0.2627	0.0159

78TH MILLENNIUM CE

This is a list of transits visible from Earth in the 78th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	77010-05-12 08:10 G		29848515.74	29848515.84	29848515.95	0.2627	0.1536	
Mercury	77014-11-05 00:44 G		29850153.42	29850153.53	29850153.64	0.2706	0.1377	
Mercury	77017-05-04 22:20 G		29851065.37	29851065.43	29851065.49	0.2626	0.2289	
Mercury	77027-11-07 23:46 G		29854904.37	29854904.49	29854904.62	0.2706	0.0290	
Mercury	77030-05-07 19:12 G		29855816.18	29855816.30	29855816.41	0.2627	0.0968	
Mercury	77040-11-09 22:48 G		29859655.36	29859655.45	29859655.54	0.2705	0.1880	
Mercury	77043-05-10 16:20 G		29860567.05	29860567.18	29860567.30	0.2627	0.0408	
Mercury	77056-05-12 13:41 G		29865317.98	29865318.07	29865318.16	0.2627	0.1816	
Mercury	77060-11-05 06:15 G		29866955.64	29866955.76	29866955.88	0.2706	0.1064	

Mercury	77063-05-06 03:36 G	29867867.57	29867867.65	29867867.73	0.2626	0.2035
Mercury	77073-11-08 05:17 G	29871706.60	29871706.72	29871706.85	0.2706	0.0595
Mercury	77076-05-08 00:29 G	29872618.40	29872618.52	29872618.64	0.2627	0.0701
Venus	77077-03-31 12:44 G	29872945.89	29872946.03	29872946.16	0.2628	0.1380
Venus	77085-03-29 04:20 G	29875865.56	29875865.68	29875865.80	0.2629	0.1749
Mercury	77086-11-11 04:05 G	29876457.60	29876457.67	29876457.75	0.2705	0.2177
Mercury	77089-05-10 21:36 G	29877369.28	29877369.40	29877369.52	0.2627	0.0674
Mercury	77093-11-03 12:29 G	29879006.96	29879007.02	29879007.07	0.2706	0.2442
Mercury	77102-05-14 18:58 G	29882120.22	29882120.29	29882120.37	0.2628	0.2094
Mercury	77106-11-07 11:46 G	29883757.87	29883757.99	29883758.12	0.2706	0.0746
Mercury	77109-05-07 08:53 G	29884669.77	29884669.87	29884669.96	0.2626	0.1782
Mercury	77119-11-10 10:48 G	29888508.83	29888508.95	29888509.08	0.2706	0.0897
Mercury	77122-05-10 05:46 G	29889420.61	29889420.74	29889420.86	0.2627	0.0445
Mercury	77132-11-12 09:36 G	29893259.85	29893259.90	29893259.95	0.2705	0.2473
Mercury	77135-05-13 02:53 G	29894171.50	29894171.62	29894171.74	0.2627	0.0950
Mercury	77139-11-05 18:00 G	29895809.17	29895809.25	29895809.33	0.2706	0.2120
Mercury	77148-05-15 00:29 G	29898922.47	29898922.52	29898922.57	0.2628	0.2379
Mercury	77152-11-07 17:32 G	29900560.10	29900560.23	29900560.36	0.2706	0.0434
Mercury	77155-05-08 13:56 G	29901471.98	29901472.08	29901472.19	0.2626	0.1524
Mercury	77165-11-10 16:34 G	29905311.07	29905311.19	29905311.30	0.2706	0.1207
Mercury	77168-05-10 11:03 G	29906222.83	29906222.96	29906223.08	0.2627	0.0184
Mercury	77181-05-13 08:10 G	29910973.73	29910973.84	29910973.95	0.2627	0.1219
Venus	77182-10-02 16:20 G	29911481.03	29911481.18	29911481.32	0.2704	0.1148
Mercury	77185-11-05 23:32 G	29912611.39	29912611.48	29912611.58	0.2706	0.1801
Mercury	77188-05-05 22:34 G	29913523.42	29913523.44	29913523.46	0.2626	0.2577
Venus	77190-09-30 06:58 G	29914400.71	29914400.79	29914400.87	0.2703	0.2306
Mercury	77198-11-08 23:03 G	29917362.33	29917362.46	29917362.59	0.2706	0.0130
Mercury	77201-05-08 19:12 G	29918274.19	29918274.30	29918274.41	0.2626	0.1265
Mercury	77211-11-11 22:05 G	29922113.31	29922113.42	29922113.52	0.2706	0.1509
Mercury	77214-05-11 16:20 G	29923025.05	29923025.18	29923025.30	0.2627	0.0118

Mercury	77227-05-14 13:41 G	29927775.96	29927776.07	29927776.17	0.2627	0.1501
Mercury	77231-11-07 05:17 G	29929413.61	29929413.72	29929413.83	0.2706	0.1482
Mercury	77234-05-07 03:51 G	29930325.60	29930325.66	29930325.71	0.2626	0.2325
Mercury	77244-11-09 04:34 G	29934164.56	29934164.69	29934164.82	0.2706	0.0198
Mercury	77247-05-10 00:29 G	29935076.40	29935076.52	29935076.64	0.2626	0.1005
Mercury	77257-11-12 03:22 G	29938915.55	29938915.64	29938915.74	0.2705	0.1810
Mercury	77260-05-11 21:36 G	29939827.27	29939827.40	29939827.52	0.2627	0.0365
Mercury	77273-05-14 18:58 G	29944578.19	29944578.29	29944578.38	0.2627	0.1770
Mercury	77277-11-07 10:48 G	29946215.83	29946215.95	29946216.07	0.2706	0.1160
Mercury	77280-05-07 08:53 G	29947127.80	29947127.87	29947127.95	0.2626	0.2071
Mercury	77290-11-10 10:05 G	29950966.79	29950966.92	29950967.05	0.2706	0.0507
Mercury	77293-05-10 05:46 G	29951878.62	29951878.74	29951878.86	0.2626	0.0745
Mercury	77303-11-14 08:53 G	29955717.79	29955717.87	29955717.95	0.2705	0.2107
Mercury	77306-05-14 02:53 G	29956629.50	29956629.62	29956629.74	0.2627	0.0632
Mercury	77310-11-06 16:48 G	29958267.16	29958267.20	29958267.24	0.2707	0.2561
Mercury	77319-05-17 00:15 G	29961380.43	29961380.51	29961380.59	0.2627	0.2050
Venus	77320-04-02 14:39 G	29961701.98	29961702.11	29961702.23	0.2629	0.1624
Mercury	77323-11-09 16:20 G	29963018.06	29963018.18	29963018.31	0.2706	0.0845
Mercury	77326-05-09 14:10 G	29963930.00	29963930.09	29963930.18	0.2626	0.1813
Venus	77328-03-31 06:00 G	29964621.62	29964621.75	29964621.88	0.2629	0.1534
Mercury	77336-11-11 15:36 G	29967769.03	29967769.15	29967769.27	0.2706	0.0816
Mercury	77339-05-12 11:03 G	29968680.84	29968680.96	29968681.08	0.2626	0.0476
Mercury	77349-11-14 14:24 G	29972520.04	29972520.10	29972520.15	0.2705	0.2409
Mercury	77352-05-14 08:10 G	29973431.72	29973431.84	29973431.96	0.2627	0.0903
Mercury	77356-11-06 22:34 G	29975069.36	29975069.44	29975069.51	0.2707	0.2235
Mercury	77365-05-17 05:32 G	29978182.67	29978182.73	29978182.79	0.2627	0.2327
Mercury	77369-11-09 21:51 G	29979820.29	29979820.41	29979820.54	0.2706	0.0533
Mercury	77372-05-09 19:27 G	29980732.21	29980732.31	29980732.41	0.2626	0.1557
Mercury	77382-11-12 21:08 G	29984571.26	29984571.38	29984571.50	0.2706	0.1121
Mercury	77385-05-12 16:20 G	29985483.05	29985483.18	29985483.31	0.2627	0.0212

Mercury	77398-05-15 13:27 G	29990233.95	29990234.06	29990234.18	0.2627	0.1182
Mercury	77402-11-09 04:05 G	29991871.58	29991871.67	29991871.76	0.2707	0.1907
Mercury	77405-05-09 04:05 G	29992783.65	29992783.67	29992783.68	0.2626	0.2607
Mercury	77411-05-19 10:48 G	29994984.94	29994984.95	29994984.96	0.2627	0.2612
Mercury	77415-11-12 03:36 G	29996622.52	29996622.65	29996622.78	0.2706	0.0214
Mercury	77418-05-12 00:44 G	29997534.42	29997534.53	29997534.64	0.2626	0.1298
Venus	77425-10-04 17:17 G	30000237.08	30000237.22	30000237.36	0.2703	0.1212
Mercury	77428-11-14 02:39 G	30001373.50	30001373.61	30001373.72	0.2706	0.1431
Mercury	77431-05-14 21:36 G	30002285.27	30002285.40	30002285.53	0.2627	0.0059
Venus	77433-10-02 07:56 G	30003156.74	30003156.83	30003156.91	0.2703	0.2246
Mercury	77444-05-16 18:44 G	30007036.18	30007036.28	30007036.39	0.2627	0.1454
Mercury	77448-11-09 09:51 G	30008673.80	30008673.91	30008674.01	0.2706	0.1584
Mercury	77451-05-10 09:08 G	30009585.83	30009585.88	30009585.93	0.2626	0.2358
Mercury	77461-11-12 09:08 G	30013424.75	30013424.88	30013425.01	0.2706	0.0111
Mercury	77464-05-12 06:00 G	30014336.63	30014336.75	30014336.86	0.2626	0.1043
Mercury	77474-11-15 08:10 G	30018175.74	30018175.84	30018175.94	0.2706	0.1734
Mercury	77477-05-15 02:53 G	30019087.49	30019087.62	30019087.75	0.2627	0.0326
Mercury	77490-05-18 00:00 G	30023838.41	30023838.50	30023838.60	0.2627	0.1734
Mercury	77494-11-10 15:22 G	30025476.02	30025476.14	30025476.25	0.2706	0.1260
Mercury	77497-05-10 14:24 G	30026388.03	30026388.10	30026388.17	0.2626	0.2105
Mercury	77507-11-14 14:39 G	30030226.98	30030227.11	30030227.24	0.2706	0.0422
Mercury	77510-05-14 11:17 G	30031138.85	30031138.97	30031139.09	0.2626	0.0781
Mercury	77520-11-16 13:41 G	30034977.98	30034978.07	30034978.15	0.2706	0.2041
Mercury	77523-05-17 08:10 G	30035889.72	30035889.84	30035889.96	0.2627	0.0593
Mercury	77527-11-09 21:22 G	30037527.37	30037527.39	30037527.40	0.2707	0.2674
Mercury	77536-05-19 05:32 G	30040640.64	30040640.73	30040640.81	0.2627	0.2007
Mercury	77540-11-11 20:53 G	30042278.25	30042278.37	30042278.49	0.2706	0.0940
Mercury	77543-05-12 19:41 G	30043190.23	30043190.32	30043190.40	0.2626	0.1852
Mercury	77553-11-14 20:10 G	30047029.21	30047029.34	30047029.47	0.2706	0.0732
Mercury	77556-05-14 16:20 G	30047941.06	30047941.18	30047941.31	0.2626	0.0519

Venus	77563-04-05 16:20 G	30050458.07	30050458.18	30050458.29	0.2629	0.1857
Mercury	77566-11-17 19:12 G	30051780.24	30051780.30	30051780.36	0.2706	0.2344
Mercury	77569-05-17 13:27 G	30052691.94	30052692.06	30052692.18	0.2627	0.0863
Venus	77571-04-03 07:56 G	30053377.69	30053377.83	30053377.97	0.2630	0.1301
Mercury	77573-11-10 02:53 G	30054329.56	30054329.62	30054329.68	0.2707	0.2347
Mercury	77582-05-20 10:48 G	30057442.89	30057442.95	30057443.01	0.2627	0.2286
Mercury	77586-11-13 02:24 G	30059080.48	30059080.60	30059080.73	0.2706	0.0625
Mercury	77589-05-13 00:58 G	30059992.44	30059992.54	30059992.63	0.2626	0.1591
Mercury	77599-11-16 01:41 G	30063831.45	30063831.57	30063831.69	0.2706	0.1044
Mercury	77602-05-15 21:36 G	30064743.28	30064743.40	30064743.53	0.2626	0.0257
Mercury	77612-11-18 00:29 G	30068582.50	30068582.52	30068582.55	0.2705	0.2647
Mercury	77615-05-18 18:44 G	30069494.17	30069494.28	30069494.39	0.2627	0.1134
Mercury	77619-11-11 08:24 G	30071131.77	30071131.85	30071131.94	0.2707	0.2022
Mercury	77628-05-20 16:05 G	30074245.15	30074245.17	30074245.19	0.2627	0.2561
Mercury	77632-11-13 07:56 G	30075882.70	30075882.83	30075882.96	0.2706	0.0318
Mercury	77635-05-14 06:00 G	30076794.65	30076794.75	30076794.86	0.2626	0.1335
Mercury	77645-11-16 07:12 G	30080633.69	30080633.80	30080633.91	0.2706	0.1352
Mercury	77648-05-16 02:53 G	30081545.50	30081545.62	30081545.75	0.2626	0.0052
Mercury	77661-05-19 00:00 G	30086296.39	30086296.50	30086296.61	0.2627	0.1410
Mercury	77665-11-11 14:10 G	30087933.99	30087934.09	30087934.19	0.2707	0.1693
Mercury	77668-05-11 14:39 G	30088846.06	30088846.11	30088846.16	0.2626	0.2387
Venus	77668-10-05 18:00 G	30088993.11	30088993.25	30088993.39	0.2703	0.1233
Venus	77676-10-03 08:53 G	30091912.78	30091912.87	30091912.96	0.2702	0.2197
Mercury	77678-11-14 13:41 G	30092684.94	30092685.07	30092685.20	0.2706	0.0059
Mercury	77681-05-14 11:17 G	30093596.86	30093596.97	30093597.09	0.2626	0.1071
Mercury	77691-11-17 12:44 G	30097435.93	30097436.03	30097436.13	0.2706	0.1660
Mercury	77694-05-17 08:10 G	30098347.72	30098347.84	30098347.97	0.2626	0.0291
Mercury	77707-05-21 05:17 G	30103098.63	30103098.72	30103098.82	0.2627	0.1686
Mercury	77711-11-13 19:41 G	30104736.21	30104736.32	30104736.44	0.2707	0.1368
Mercury	77714-05-13 19:56 G	30105648.26	30105648.33	30105648.40	0.2626	0.2134

Mercury	77724-11-15 19:12 G	30109487.17	30109487.30	30109487.43	0.2706	0.0331
Mercury	77727-05-16 16:34 G	30110399.07	30110399.19	30110399.31	0.2626	0.0812
Mercury	77737-11-18 18:15 G	30114238.17	30114238.26	30114238.35	0.2706	0.1967
Mercury	77740-05-18 13:27 G	30115149.94	30115150.06	30115150.18	0.2627	0.0555
Mercury	77753-05-21 10:48 G	30119900.86	30119900.95	30119901.03	0.2627	0.1966
Mercury	77757-11-14 01:27 G	30121538.43	30121538.56	30121538.68	0.2707	0.1046
Mercury	77760-05-14 01:12 G	30122450.46	30122450.55	30122450.63	0.2626	0.1877
Mercury	77770-11-17 00:44 G	30126289.41	30126289.53	30126289.66	0.2706	0.0649
Mercury	77773-05-16 21:51 G	30127201.29	30127201.41	30127201.53	0.2626	0.0549
Mercury	77783-11-19 23:46 G	30131040.42	30131040.49	30131040.56	0.2706	0.2274
Mercury	77786-05-19 18:44 G	30131952.16	30131952.28	30131952.40	0.2626	0.0825
Mercury	77790-11-12 07:12 G	30133589.75	30133589.80	30133589.85	0.2707	0.2462
Mercury	77799-05-22 16:05 G	30136703.10	30136703.17	30136703.23	0.2627	0.2240
Mercury	77803-11-16 06:58 G	30138340.66	30138340.79	30138340.92	0.2706	0.0722
Venus	77806-04-07 18:00 G	30139214.16	30139214.25	30139214.35	0.2630	0.2086
Mercury	77806-05-16 06:15 G	30139252.67	30139252.76	30139252.86	0.2626	0.1628
Venus	77814-04-05 09:36 G	30142133.75	30142133.90	30142134.04	0.2630	0.1086
Mercury	77816-11-18 06:15 G	30143091.64	30143091.76	30143091.88	0.2706	0.0964
Mercury	77819-05-19 03:08 G	30144003.50	30144003.63	30144003.75	0.2626	0.0293
Mercury	77829-11-21 05:17 G	30147842.69	30147842.72	30147842.76	0.2706	0.2578
Mercury	77832-05-21 00:00 G	30148754.39	30148754.50	30148754.62	0.2627	0.1099
Mercury	77836-11-13 12:58 G	30150391.96	30150392.04	30150392.12	0.2707	0.2135
Mercury	77845-05-23 21:22 G	30153505.36	30153505.39	30153505.42	0.2627	0.2521
Mercury	77849-11-16 12:29 G	30155142.89	30155143.02	30155143.15	0.2707	0.0401
Mercury	77852-05-16 11:32 G	30156054.87	30156054.98	30156055.09	0.2626	0.1366
Mercury	77862-11-19 11:46 G	30159893.88	30159893.99	30159894.11	0.2706	0.1277
Mercury	77865-05-19 08:24 G	30160805.72	30160805.85	30160805.97	0.2626	0.0088
Mercury	77878-05-22 05:17 G	30165556.61	30165556.72	30165556.83	0.2627	0.1368
Mercury	77882-11-14 18:29 G	30167194.17	30167194.27	30167194.37	0.2707	0.1803
Mercury	77885-05-14 20:10 G	30168106.30	30168106.34	30168106.39	0.2626	0.2417

Mercury	77895-11-17 18:15 G	30171945.12	30171945.26	30171945.39	0.2707	0.0113
Mercury	77898-05-17 16:48 G	30172857.08	30172857.20	30172857.31	0.2626	0.1113
Mercury	77908-11-20 17:17 G	30176696.12	30176696.22	30176696.33	0.2706	0.1589
Mercury	77911-05-21 13:27 G	30177607.94	30177608.06	30177608.19	0.2626	0.0254
Venus	77911-10-09 19:12 G	30177749.16	30177749.30	30177749.43	0.2703	0.1308
Venus	77919-10-07 09:51 G	30180668.82	30180668.91	30180669.01	0.2702	0.2129
Mercury	77924-05-23 10:34 G	30182358.85	30182358.94	30182359.04	0.2627	0.1644
Mercury	77928-11-16 00:00 G	30183996.39	30183996.50	30183996.62	0.2707	0.1482
Mercury	77931-05-17 01:27 G	30184908.49	30184908.56	30184908.63	0.2626	0.2162
Mercury	77941-11-18 23:46 G	30188747.36	30188747.49	30188747.62	0.2707	0.0242
Mercury	77944-05-18 22:05 G	30189659.30	30189659.42	30189659.53	0.2626	0.0847
Mercury	77954-11-21 22:48 G	30193498.36	30193498.45	30193498.55	0.2706	0.1896
Mercury	77957-05-21 18:44 G	30194410.16	30194410.28	30194410.41	0.2626	0.0520
Mercury	77970-05-24 15:51 G	30199161.08	30199161.16	30199161.25	0.2627	0.1916
Mercury	77974-11-17 05:46 G	30200798.62	30200798.74	30200798.86	0.2707	0.1152
Mercury	77977-05-17 06:29 G	30201710.69	30201710.77	30201710.86	0.2626	0.1913
Mercury	77987-11-20 05:17 G	30205549.59	30205549.72	30205549.85	0.2706	0.0556
Mercury	77990-05-20 03:08 G	30206461.51	30206461.63	30206461.76	0.2626	0.0589
Mercury	78000-11-22 04:20 G	30210300.61	30210300.68	30210300.76	0.2706	0.2202

79TH MILLENNIUM CE

This is a list of transits visible from Earth in the 79th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Mercury	78003-05-23 00:15 G	30211212.39	30211212.51	30211212.63	0.2626	0.0793
Mercury	78007-11-15 11:32 G	30212849.94	30212849.98	30212850.02	0.2707	0.2586
Mercury	78016-05-24 21:22 G	30215963.32	30215963.39	30215963.45	0.2627	0.2197
Mercury	78020-11-17 11:32 G	30217600.85	30217600.98	30217601.10	0.2707	0.0826
Mercury	78023-05-18 11:46 G	30218512.90	30218512.99	30218513.09	0.2626	0.1654
Mercury	78033-11-20 10:48 G	30222351.83	30222351.95	30222352.08	0.2706	0.0876
Mercury	78036-05-20 08:24 G	30223263.73	30223263.85	30223263.98	0.2626	0.0325
Mercury	78046-11-23 09:51 G	30227102.87	30227102.91	30227102.96	0.2706	0.2508
Venus	78049-04-08 19:41 G	30227970.24	30227970.32	30227970.39	0.2630	0.2303
Mercury	78049-05-23 05:17 G	30228014.61	30228014.72	30228014.84	0.2626	0.1061
Mercury	78053-11-15 17:17 G	30229652.15	30229652.22	30229652.29	0.2707	0.2247
Venus	78057-04-06 11:03 G	30230889.81	30230889.96	30230890.11	0.2631	0.0880
Mercury	78062-05-26 02:39 G	30232765.57	30232765.61	30232765.65	0.2627	0.2478
Mercury	78066-11-18 17:03 G	30234403.08	30234403.21	30234403.34	0.2707	0.0497
Mercury	78069-05-18 17:03 G	30235315.10	30235315.21	30235315.31	0.2626	0.1401
Mercury	78079-11-21 16:20 G	30239154.07	30239154.18	30239154.30	0.2706	0.1194
Mercury	78082-05-21 13:41 G	30240065.94	30240066.07	30240066.20	0.2626	0.0059
Mercury	78095-05-24 10:34 G	30244816.84	30244816.94	30244817.05	0.2626	0.1334
Mercury	78099-11-16 22:48 G	30246454.36	30246454.45	30246454.55	0.2707	0.1920
Mercury	78102-05-18 01:41 G	30247366.53	30247366.57	30247366.61	0.2625	0.2449
Mercury	78112-11-19 22:34 G	30251205.31	30251205.44	30251205.57	0.2707	0.0179
Mercury	78115-05-20 22:20 G	30252117.31	30252117.43	30252117.54	0.2626	0.1141
Mercury	78125-11-22 22:05 G	30255956.31	30255956.42	30255956.52	0.2706	0.1511
Mercury	78128-05-22 18:58 G	30256868.17	30256868.29	30256868.42	0.2626	0.0210
Mercury	78141-05-25 15:51 G	30261619.06	30261619.16	30261619.26	0.2626	0.1603
Mercury	78145-11-18 04:34 G	30263256.58	30263256.69	30263256.80	0.2707	0.1584
Mercury	78148-05-18 06:58 G	30264168.72	30264168.79	30264168.85	0.2625	0.2198
Venus	78154-10-10 19:56 G	30266505.20	30266505.33	30266505.47	0.2702	0.1339
Mercury	78158-11-21 04:05 G	30268007.54	30268007.67	30268007.81	0.2707	0.0163
Mercury	78161-05-21 03:22 G	30268919.52	30268919.64	30268919.76	0.2626	0.0886

Venus	78162-10-08 10:48 G	30269424.85	30269424.95	30269425.05	0.2701	0.2078
Mercury	78171-11-24 03:36 G	30272758.55	30272758.65	30272758.74	0.2706	0.1821
Mercury	78174-05-24 00:15 G	30273670.39	30273670.51	30273670.63	0.2626	0.0480
Mercury	78187-05-26 21:08 G	30278421.30	30278421.38	30278421.47	0.2626	0.1881
Mercury	78191-11-19 10:05 G	30280058.81	30280058.92	30280059.04	0.2707	0.1257
Mercury	78194-05-19 12:00 G	30280970.92	30280971.00	30280971.08	0.2626	0.1946
Mercury	78204-11-22 09:51 G	30284809.78	30284809.91	30284810.04	0.2707	0.0475
Mercury	78207-05-23 08:39 G	30285721.74	30285721.86	30285721.98	0.2626	0.0619
Mercury	78217-11-25 09:08 G	30289560.80	30289560.88	30289560.96	0.2706	0.2131
Mercury	78220-05-25 05:32 G	30290472.61	30290472.73	30290472.85	0.2626	0.0746
Mercury	78224-11-17 15:51 G	30292110.16	30292110.16	30292110.16	0.2707	0.2707
Mercury	78233-05-28 02:24 G	30295223.53	30295223.60	30295223.67	0.2627	0.2155
Mercury	78237-11-20 15:51 G	30296861.03	30296861.16	30296861.28	0.2707	0.0929
Mercury	78240-05-20 17:17 G	30297773.13	30297773.22	30297773.32	0.2626	0.1686
Mercury	78250-11-23 15:22 G	30301612.01	30301612.14	30301612.27	0.2707	0.0789
Mercury	78253-05-23 13:56 G	30302523.95	30302524.08	30302524.20	0.2626	0.0360
Mercury	78263-11-26 14:39 G	30306363.06	30306363.11	30306363.16	0.2706	0.2446
Mercury	78266-05-26 10:48 G	30307274.83	30307274.95	30307275.06	0.2626	0.1021
Mercury	78270-11-18 21:22 G	30308912.33	30308912.39	30308912.46	0.2707	0.2375
Mercury	78279-05-29 07:56 G	30312025.78	30312025.83	30312025.87	0.2626	0.2432
Mercury	78283-11-21 21:22 G	30313663.26	30313663.39	30313663.52	0.2707	0.0602
Mercury	78286-05-21 22:34 G	30314575.34	30314575.44	30314575.54	0.2626	0.1427
Venus	78292-04-10 21:22 G	30316726.35	30316726.39	30316726.43	0.2631	0.2530
Mercury	78296-11-23 20:53 G	30318414.25	30318414.37	30318414.49	0.2707	0.1110
Mercury	78299-05-24 19:12 G	30319326.17	30319326.30	30319326.42	0.2626	0.0098
Venus	78300-04-09 12:29 G	30319645.87	30319646.02	30319646.18	0.2631	0.0665
Mercury	78312-05-27 16:05 G	30324077.06	30324077.17	30324077.28	0.2626	0.1291
Mercury	78316-11-20 03:08 G	30325714.55	30325714.63	30325714.72	0.2707	0.2031
Mercury	78319-05-21 07:12 G	30326626.77	30326626.80	30326626.84	0.2625	0.2476
Mercury	78329-11-23 02:53 G	30330465.49	30330465.62	30330465.76	0.2707	0.0289

Mercury	78332-05-23 03:36 G	30331377.54	30331377.65	30331377.77	0.2626	0.1177
Mercury	78342-11-26 02:24 G	30335216.49	30335216.60	30335216.71	0.2707	0.1425
Mercury	78345-05-26 00:29 G	30336128.39	30336128.52	30336128.64	0.2626	0.0203
Mercury	78358-05-28 21:22 G	30340879.29	30340879.39	30340879.49	0.2626	0.1569
Mercury	78362-11-21 08:53 G	30342516.77	30342516.87	30342516.97	0.2707	0.1698
Mercury	78365-05-21 12:29 G	30343428.96	30343429.02	30343429.08	0.2625	0.2228
Mercury	78375-11-24 08:39 G	30347267.73	30347267.86	30347267.99	0.2707	0.0061
Mercury	78378-05-24 08:53 G	30348179.76	30348179.87	30348179.99	0.2626	0.0911
Mercury	78388-11-26 08:10 G	30352018.74	30352018.84	30352018.94	0.2706	0.1745
Mercury	78391-05-27 05:32 G	30352930.61	30352930.73	30352930.86	0.2626	0.0447
Venus	78397-10-12 21:22 G	30355261.25	30355261.39	30355261.52	0.2701	0.1416
Mercury	78404-05-29 02:39 G	30357681.52	30357681.61	30357681.70	0.2626	0.1840
Venus	78405-10-10 12:15 G	30358180.91	30358181.01	30358181.12	0.2700	0.1989
Mercury	78408-11-21 14:24 G	30359318.99	30359319.10	30359319.22	0.2707	0.1364
Mercury	78411-05-22 17:46 G	30360231.16	30360231.24	30360231.32	0.2625	0.1973
Mercury	78421-11-24 14:10 G	30364069.96	30364070.09	30364070.23	0.2707	0.0392
Mercury	78424-05-24 14:10 G	30364981.97	30364982.09	30364982.21	0.2626	0.0656
Mercury	78434-11-27 13:41 G	30368820.99	30368821.07	30368821.15	0.2707	0.2061
Mercury	78437-05-27 10:48 G	30369732.83	30369732.95	30369733.07	0.2626	0.0712
Mercury	78450-05-30 07:56 G	30374483.76	30374483.83	30374483.90	0.2626	0.2119
Mercury	78454-11-22 20:10 G	30376121.22	30376121.34	30376121.46	0.2707	0.1034
Mercury	78457-05-22 22:48 G	30377033.36	30377033.45	30377033.54	0.2625	0.1718
Mercury	78467-11-25 19:56 G	30380872.20	30380872.33	30380872.46	0.2707	0.0707
Mercury	78470-05-25 19:27 G	30381784.18	30381784.31	30381784.43	0.2626	0.0397
Mercury	78480-11-27 19:12 G	30385623.24	30385623.30	30385623.36	0.2706	0.2372
Mercury	78483-05-28 16:05 G	30386535.05	30386535.17	30386535.29	0.2626	0.0981
Mercury	78487-11-21 01:41 G	30388172.52	30388172.57	30388172.62	0.2707	0.2490
Mercury	78496-05-30 13:12 G	30391286.00	30391286.05	30391286.10	0.2626	0.2393
Mercury	78500-11-24 01:41 G	30392923.45	30392923.57	30392923.70	0.2707	0.0706
Mercury	78503-05-25 04:05 G	30393835.56	30393835.67	30393835.77	0.2625	0.1464

Mercury	78513-11-27 01:27 G	30397674.44	30397674.56	30397674.68	0.2707	0.1024
Mercury	78516-05-27 00:29 G	30398586.40	30398586.52	30398586.65	0.2626	0.0134
Mercury	78526-11-30 00:44 G	30402425.52	30402425.53	30402425.54	0.2706	0.2684
Mercury	78529-05-29 21:22 G	30403337.28	30403337.39	30403337.50	0.2626	0.1257
Mercury	78533-11-22 07:27 G	30404974.73	30404974.81	30404974.89	0.2707	0.2154
Mercury	78536-05-22 12:58 G	30405887.00	30405887.04	30405887.07	0.2625	0.2505
Venus	78543-04-11 13:56 G	30408401.92	30408402.08	30408402.24	0.2632	0.0463
Mercury	78546-11-25 07:27 G	30409725.68	30409725.81	30409725.94	0.2707	0.0369
Mercury	78549-05-25 09:08 G	30410637.77	30410637.88	30410637.99	0.2626	0.1205
Mercury	78559-11-28 06:58 G	30414476.68	30414476.79	30414476.91	0.2707	0.1351
Mercury	78562-05-28 05:46 G	30415388.62	30415388.74	30415388.87	0.2626	0.0146
Mercury	78575-05-31 02:39 G	30420139.51	30420139.61	30420139.71	0.2626	0.1523
Mercury	78579-11-23 13:12 G	30421776.95	30421777.05	30421777.14	0.2707	0.1814
Mercury	78582-05-23 18:00 G	30422689.19	30422689.25	30422689.31	0.2625	0.2251
Mercury	78592-11-25 12:58 G	30426527.91	30426528.04	30426528.18	0.2707	0.0092
Mercury	78595-05-26 14:24 G	30427439.98	30427440.10	30427440.22	0.2626	0.0943
Mercury	78605-11-29 12:44 G	30431278.92	30431279.03	30431279.13	0.2707	0.1667
Mercury	78608-05-29 11:03 G	30432190.84	30432190.96	30432191.08	0.2626	0.0408
Mercury	78621-06-01 07:56 G	30436941.74	30436941.83	30436941.92	0.2626	0.1804
Mercury	78625-11-24 18:44 G	30438579.17	30438579.28	30438579.39	0.2707	0.1479
Mercury	78628-05-24 23:17 G	30439491.39	30439491.47	30439491.55	0.2625	0.1999
Mercury	78638-11-27 18:44 G	30443330.15	30443330.28	30443330.41	0.2707	0.0287
Venus	78640-10-14 22:20 G	30444017.30	30444017.43	30444017.56	0.2701	0.1473
Mercury	78641-05-27 19:41 G	30444242.20	30444242.32	30444242.44	0.2625	0.0680
Venus	78648-10-12 13:27 G	30446936.95	30446937.06	30446937.16	0.2700	0.1932
Mercury	78651-11-30 18:15 G	30448081.17	30448081.26	30448081.34	0.2707	0.1984
Mercury	78654-05-30 16:20 G	30448993.06	30448993.18	30448993.30	0.2626	0.0681
Mercury	78667-06-02 13:12 G	30453743.97	30453744.05	30453744.13	0.2626	0.2077
Mercury	78671-11-26 00:29 G	30455381.40	30455381.52	30455381.64	0.2707	0.1136
Mercury	78674-05-26 04:20 G	30456293.59	30456293.68	30456293.77	0.2625	0.1746

Mercury	78684-11-28 00:15 G	30460132.38	30460132.51	30460132.64	0.2707	0.0614
Mercury	78687-05-29 00:44 G	30461044.41	30461044.53	30461044.66	0.2626	0.0431
Mercury	78697-11-30 23:46 G	30464883.42	30464883.49	30464883.55	0.2707	0.2298
Mercury	78700-05-31 21:36 G	30465795.28	30465795.40	30465795.52	0.2626	0.0951
Mercury	78704-11-24 06:00 G	30467432.72	30467432.75	30467432.78	0.2707	0.2611
Mercury	78713-06-03 18:29 G	30470546.22	30470546.27	30470546.32	0.2626	0.2358
Mercury	78717-11-27 06:15 G	30472183.63	30472183.76	30472183.89	0.2707	0.0803
Mercury	78720-05-27 09:36 G	30473095.80	30473095.90	30473096.00	0.2625	0.1491
Mercury	78730-11-30 06:00 G	30476934.62	30476934.75	30476934.87	0.2707	0.0945
Mercury	78733-05-30 06:00 G	30477846.63	30477846.75	30477846.88	0.2626	0.0170
Mercury	78743-12-03 05:17 G	30481685.69	30481685.72	30481685.75	0.2707	0.2617
Mercury	78746-06-02 02:53 G	30482597.51	30482597.62	30482597.73	0.2626	0.1220
Mercury	78750-11-25 11:46 G	30484234.92	30484234.99	30484235.06	0.2707	0.2268
Mercury	78753-05-25 18:29 G	30485147.24	30485147.27	30485147.30	0.2625	0.2533
Mercury	78763-11-28 11:46 G	30488985.86	30488985.99	30488986.12	0.2707	0.0470
Mercury	78766-05-28 14:39 G	30489898.01	30489898.11	30489898.22	0.2625	0.1235
Mercury	78776-11-30 11:32 G	30493736.86	30493736.98	30493737.10	0.2707	0.1263
Mercury	78779-05-31 11:17 G	30494648.84	30494648.97	30494649.09	0.2626	0.0107
Venus	78786-04-13 15:22 G	30497157.98	30497158.14	30497158.30	0.2633	0.0259
Mercury	78792-06-02 07:56 G	30499399.73	30499399.83	30499399.94	0.2626	0.1496
Mercury	78796-11-25 17:32 G	30501037.13	30501037.23	30501037.32	0.2707	0.1929
Mercury	78799-05-26 23:32 G	30501949.43	30501949.48	30501949.54	0.2625	0.2281
Mercury	78809-11-28 17:32 G	30505788.09	30505788.23	30505788.36	0.2707	0.0151
Mercury	78812-05-28 19:56 G	30506700.22	30506700.33	30506700.45	0.2625	0.0973
Mercury	78822-12-01 17:03 G	30510539.11	30510539.21	30510539.32	0.2707	0.1590
Mercury	78825-05-31 16:34 G	30511451.06	30511451.19	30511451.31	0.2626	0.0379
Mercury	78838-06-03 13:12 G	30516201.96	30516202.05	30516202.14	0.2626	0.1763
Mercury	78842-11-26 23:03 G	30517839.36	30517839.46	30517839.57	0.2707	0.1589
Mercury	78845-05-27 04:48 G	30518751.62	30518751.70	30518751.78	0.2625	0.2025
Mercury	78855-11-29 23:03 G	30522590.33	30522590.46	30522590.59	0.2707	0.0195

Mercury	78858-05-30 01:12 G	30523502.43	30523502.55	30523502.67	0.2625	0.0713
Mercury	78868-12-01 22:48 G	30527341.35	30527341.45	30527341.54	0.2707	0.1910
Mercury	78871-06-01 21:51 G	30528253.28	30528253.41	30528253.53	0.2626	0.0651
Venus	78883-10-16 23:46 G	30532773.36	30532773.49	30532773.62	0.2700	0.1556
Mercury	78884-06-03 18:29 G	30533004.20	30533004.27	30533004.35	0.2626	0.2042
Mercury	78888-11-27 04:48 G	30534641.58	30534641.70	30534641.82	0.2707	0.1250
Mercury	78891-05-28 10:05 G	30535553.83	30535553.92	30535554.01	0.2625	0.1773
Venus	78891-10-14 14:53 G	30535693.01	30535693.12	30535693.24	0.2699	0.1821
Mercury	78901-12-01 04:48 G	30539392.57	30539392.70	30539392.83	0.2707	0.0528
Mercury	78904-05-31 06:29 G	30540304.64	30540304.77	30540304.89	0.2625	0.0451
Mercury	78914-12-04 04:20 G	30544143.61	30544143.68	30544143.75	0.2707	0.2231
Mercury	78917-06-03 02:53 G	30545055.51	30545055.62	30545055.74	0.2626	0.0917
Mercury	78930-06-05 23:46 G	30549806.43	30549806.49	30549806.55	0.2626	0.2315
Mercury	78934-11-29 10:20 G	30551443.81	30551443.93	30551444.06	0.2707	0.0915
Mercury	78937-05-29 15:08 G	30552356.03	30552356.13	30552356.23	0.2625	0.1515
Mercury	78947-12-02 10:20 G	30556194.80	30556194.93	30556195.06	0.2707	0.0851
Mercury	78950-06-01 11:32 G	30557106.86	30557106.98	30557107.11	0.2625	0.0189
Mercury	78960-12-04 09:51 G	30560945.87	30560945.91	30560945.95	0.2707	0.2549
Mercury	78963-06-04 08:10 G	30561857.73	30561857.84	30561857.95	0.2626	0.1186
Mercury	78967-11-27 15:51 G	30563495.10	30563495.16	30563495.22	0.2708	0.2391
Mercury	78970-05-28 00:00 G	30564407.48	30564407.50	30564407.53	0.2625	0.2558
Mercury	78976-06-06 05:03 G	30566608.70	30566608.71	30566608.73	0.2626	0.2602
Mercury	78980-11-29 16:05 G	30568246.04	30568246.17	30568246.30	0.2707	0.0575
Mercury	78983-05-30 20:24 G	30569158.24	30569158.35	30569158.46	0.2625	0.1257
Mercury	78993-12-02 16:05 G	30572997.05	30572997.17	30572997.28	0.2707	0.1185
Mercury	78996-06-01 16:48 G	30573909.07	30573909.20	30573909.32	0.2625	0.0081

80TH MILLENNIUM CE

This is a list of transits visible from Earth in the 80th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	79009-06-05 13:27	G	30578659.96	30578660.06	30578660.16	0.2626	0.1458	
Mercury	79013-11-28 21:36	G	30580297.32	30580297.40	30580297.49	0.2707	0.2045	
Mercury	79016-05-29 05:17	G	30581209.66	30581209.72	30581209.78	0.2625	0.2305	
Mercury	79026-12-01 21:51	G	30585048.28	30585048.41	30585048.54	0.2707	0.0235	
Venus	79029-04-15 16:48	G	30585914.04	30585914.20	30585914.36	0.2633	0.0049	
Mercury	79029-06-01 01:27	G	30585960.45	30585960.56	30585960.68	0.2625	0.1004	
Mercury	79039-12-04 21:36	G	30589799.29	30589799.40	30589799.51	0.2707	0.1508	
Mercury	79042-06-03 22:05	G	30590711.29	30590711.42	30590711.54	0.2626	0.0356	
Mercury	79055-06-06 18:44	G	30595462.19	30595462.28	30595462.37	0.2626	0.1734	
Mercury	79059-11-30 03:22	G	30597099.54	30597099.64	30597099.74	0.2708	0.1701	
Mercury	79062-05-30 10:20	G	30598011.86	30598011.93	30598012.01	0.2625	0.2056	
Mercury	79072-12-02 03:36	G	30601850.51	30601850.65	30601850.78	0.2707	0.0132	
Mercury	79075-06-02 06:44	G	30602762.66	30602762.78	30602762.90	0.2625	0.0741	
Mercury	79085-12-05 03:08	G	30606601.54	30606601.63	30606601.73	0.2707	0.1839	
Mercury	79088-06-04 03:08	G	30607513.51	30607513.63	30607513.75	0.2625	0.0618	
Mercury	79101-06-08 00:00	G	30612264.42	30612264.50	30612264.58	0.2626	0.2006	
Mercury	79105-12-01 09:08	G	30613901.76	30613901.88	30613901.99	0.2707	0.1358	
Mercury	79108-05-31 15:36	G	30614814.06	30614814.15	30614814.24	0.2625	0.1800	
Mercury	79118-12-04 09:08	G	30618652.75	30618652.88	30618653.01	0.2707	0.0435	
Mercury	79121-06-03 11:46	G	30619564.87	30619564.99	30619565.12	0.2625	0.0487	
Venus	79126-10-20 00:58	G	30621529.42	30621529.54	30621529.67	0.2699	0.1632	
Mercury	79131-12-07 08:53	G	30623403.79	30623403.87	30623403.94	0.2707	0.2158	

Mercury	79134-06-06 08:24 G	30624315.73	30624315.85	30624315.97	0.2626	0.0879
Venus	79134-10-17 16:20 G	30624449.06	30624449.18	30624449.30	0.2698	0.1747
Mercury	79147-06-09 05:17 G	30629066.66	30629066.72	30629066.78	0.2626	0.2286
Mercury	79151-12-02 14:39 G	30630703.99	30630704.11	30630704.24	0.2707	0.1021
Mercury	79154-06-01 20:53 G	30631616.27	30631616.37	30631616.46	0.2625	0.1543
Mercury	79164-12-04 14:53 G	30635454.99	30635455.12	30635455.24	0.2707	0.0770
Mercury	79167-06-04 17:03 G	30636367.09	30636367.21	30636367.34	0.2625	0.0219
Mercury	79177-12-07 14:24 G	30640206.05	30640206.10	30640206.15	0.2707	0.2481
Mercury	79180-06-06 13:41 G	30641117.96	30641118.07	30641118.18	0.2626	0.1152
Mercury	79184-11-29 20:10 G	30642755.29	30642755.34	30642755.38	0.2708	0.2516
Mercury	79187-05-31 05:46 G	30643667.72	30643667.74	30643667.76	0.2625	0.2578
Mercury	79193-06-09 10:34 G	30645868.91	30645868.94	30645868.96	0.2626	0.2559
Mercury	79197-12-02 20:24 G	30647506.22	30647506.35	30647506.48	0.2707	0.0679
Mercury	79200-06-02 01:56 G	30648418.47	30648418.58	30648418.69	0.2625	0.1286
Mercury	79210-12-05 20:24 G	30652257.23	30652257.35	30652257.47	0.2707	0.1095
Mercury	79213-06-04 22:20 G	30653169.30	30653169.43	30653169.55	0.2625	0.0060
Mercury	79226-06-07 18:58 G	30657920.18	30657920.29	30657920.39	0.2626	0.1427
Mercury	79230-12-01 01:56 G	30659557.50	30659557.58	30659557.65	0.2708	0.2169
Mercury	79233-05-31 11:03 G	30660469.90	30660469.96	30660470.01	0.2625	0.2333
Mercury	79243-12-04 02:10 G	30664308.46	30664308.59	30664308.72	0.2708	0.0337
Mercury	79246-06-03 06:58 G	30665220.68	30665220.79	30665220.91	0.2625	0.1032
Mercury	79256-12-06 01:56 G	30669059.47	30669059.58	30669059.70	0.2707	0.1426
Mercury	79259-06-06 03:36 G	30669971.52	30669971.65	30669971.77	0.2625	0.0323
Venus	79272-04-16 18:00 G	30674670.09	30674670.25	30674670.41	0.2634	0.0136
Mercury	79272-06-08 00:15 G	30674722.41	30674722.51	30674722.60	0.2626	0.1701
Mercury	79276-12-01 07:41 G	30676359.72	30676359.82	30676359.92	0.2708	0.1817
Mercury	79279-06-01 16:05 G	30677272.10	30677272.17	30677272.24	0.2625	0.2078
Mercury	79289-12-04 07:56 G	30681110.69	30681110.83	30681110.96	0.2707	0.0095
Mercury	79292-06-03 12:15 G	30682022.89	30682023.01	30682023.13	0.2625	0.0769
Mercury	79302-12-08 07:41 G	30685861.72	30685861.82	30685861.92	0.2707	0.1753

Mercury	79305-06-07 08:39 G	30686773.74	30686773.86	30686773.98	0.2625	0.0586
Mercury	79318-06-10 05:32 G	30691524.65	30691524.73	30691524.81	0.2626	0.1978
Mercury	79322-12-03 13:12 G	30693161.94	30693162.05	30693162.17	0.2708	0.1473
Mercury	79325-06-02 21:08 G	30694074.30	30694074.38	30694074.47	0.2625	0.1825
Mercury	79335-12-06 13:27 G	30697912.93	30697913.06	30697913.19	0.2707	0.0342
Mercury	79338-06-05 17:32 G	30698825.11	30698825.23	30698825.35	0.2625	0.0507
Mercury	79348-12-08 13:12 G	30702663.97	30702664.05	30702664.13	0.2707	0.2081
Mercury	79351-06-08 13:56 G	30703575.96	30703576.08	30703576.20	0.2625	0.0855
Mercury	79364-06-10 10:34 G	30708326.88	30708326.94	30708327.01	0.2626	0.2251
Mercury	79368-12-03 18:58 G	30709964.17	30709964.29	30709964.41	0.2708	0.1128
Venus	79369-10-21 02:39 G	30710285.49	30710285.61	30710285.73	0.2699	0.1722
Mercury	79371-06-04 02:24 G	30710876.50	30710876.60	30710876.70	0.2625	0.1573
Venus	79377-10-18 17:46 G	30713205.12	30713205.24	30713205.37	0.2698	0.1646
Mercury	79381-12-06 19:12 G	30714715.17	30714715.30	30714715.42	0.2707	0.0678
Mercury	79384-06-05 22:34 G	30715627.32	30715627.44	30715627.57	0.2625	0.0255
Mercury	79394-12-09 18:44 G	30719466.23	30719466.28	30719466.34	0.2707	0.2406
Mercury	79397-06-08 19:12 G	30720378.19	30720378.30	30720378.41	0.2625	0.1125
Mercury	79401-12-03 00:15 G	30722015.48	30722015.51	30722015.54	0.2708	0.2642
Mercury	79404-06-02 11:32 G	30722927.97	30722927.98	30722927.99	0.2625	0.2611
Mercury	79410-06-12 15:51 G	30725129.13	30725129.16	30725129.19	0.2626	0.2528
Mercury	79414-12-06 00:44 G	30726766.40	30726766.53	30726766.66	0.2708	0.0780
Mercury	79417-06-05 07:27 G	30727678.71	30727678.81	30727678.92	0.2625	0.1316
Mercury	79427-12-09 00:44 G	30731517.41	30731517.53	30731517.65	0.2707	0.1008
Mercury	79430-06-08 03:51 G	30732429.54	30732429.66	30732429.78	0.2625	0.0023
Mercury	79443-06-11 00:29 G	30737180.41	30737180.52	30737180.62	0.2625	0.1395
Mercury	79447-12-04 06:00 G	30738817.68	30738817.75	30738817.82	0.2708	0.2289
Mercury	79450-06-03 16:34 G	30739730.14	30739730.19	30739730.24	0.2625	0.2354
Mercury	79460-12-06 06:29 G	30743568.63	30743568.77	30743568.90	0.2707	0.0447
Mercury	79463-06-06 12:44 G	30744480.92	30744481.03	30744481.14	0.2625	0.1057
Mercury	79473-12-09 06:29 G	30748319.65	30748319.77	30748319.88	0.2707	0.1342

Mercury	79476-06-08 09:08 G	30749231.75	30749231.88	30749232.00	0.2625	0.0297
Mercury	79489-06-11 05:32 G	30753982.64	30753982.73	30753982.83	0.2625	0.1664
Mercury	79493-12-04 11:46 G	30755619.90	30755619.99	30755620.08	0.2708	0.1943
Mercury	79496-06-03 21:36 G	30756532.33	30756532.40	30756532.48	0.2625	0.2106
Mercury	79506-12-08 12:00 G	30760370.87	30760371.00	30760371.14	0.2708	0.0111
Mercury	79509-06-07 18:00 G	30761283.13	30761283.25	30761283.36	0.2625	0.0794
Venus	79515-04-20 19:12 G	30763426.14	30763426.30	30763426.46	0.2635	0.0336
Mercury	79519-12-11 12:00 G	30765121.90	30765122.00	30765122.10	0.2707	0.1671
Mercury	79522-06-10 14:10 G	30766033.97	30766034.09	30766034.22	0.2625	0.0559
Mercury	79535-06-13 10:48 G	30770784.87	30770784.95	30770785.03	0.2625	0.1937
Mercury	79539-12-06 17:32 G	30772422.12	30772422.23	30772422.34	0.2708	0.1590
Mercury	79542-06-06 02:53 G	30773334.53	30773334.62	30773334.71	0.2625	0.1849
Mercury	79552-12-08 17:46 G	30777173.10	30777173.24	30777173.37	0.2708	0.0240
Mercury	79555-06-08 23:03 G	30778085.34	30778085.46	30778085.58	0.2625	0.0534
Mercury	79565-12-11 17:32 G	30781924.15	30781924.23	30781924.32	0.2707	0.2001
Mercury	79568-06-10 19:27 G	30782836.19	30782836.31	30782836.43	0.2625	0.0825
Mercury	79581-06-13 16:05 G	30787587.11	30787587.17	30787587.24	0.2626	0.2216
Mercury	79585-12-06 23:17 G	30789224.35	30789224.47	30789224.59	0.2708	0.1243
Mercury	79588-06-06 07:56 G	30790136.74	30790136.83	30790136.93	0.2625	0.1598
Mercury	79598-12-09 23:32 G	30793975.35	30793975.48	30793975.61	0.2708	0.0586
Mercury	79601-06-09 04:20 G	30794887.55	30794887.68	30794887.80	0.2625	0.0277
Mercury	79611-12-12 23:17 G	30798726.40	30798726.47	30798726.53	0.2707	0.2328
Venus	79612-10-23 04:05 G	30799041.55	30799041.67	30799041.78	0.2698	0.1793
Mercury	79614-06-12 00:44 G	30799638.41	30799638.53	30799638.64	0.2625	0.1092
Venus	79620-10-20 19:27 G	30801961.18	30801961.31	30801961.44	0.2697	0.1548
Mercury	79627-06-14 21:22 G	30804389.35	30804389.39	30804389.42	0.2626	0.2494
Mercury	79631-12-08 04:48 G	30806026.58	30806026.70	30806026.83	0.2708	0.0898
Mercury	79634-06-07 13:12 G	30806938.94	30806939.05	30806939.15	0.2625	0.1338
Mercury	79644-12-10 05:03 G	30810777.59	30810777.71	30810777.84	0.2708	0.0918
Mercury	79647-06-10 09:22 G	30811689.77	30811689.89	30811690.01	0.2625	0.0020

Mercury	79657-12-13 04:48 G	30815528.68	30815528.70	30815528.73	0.2707	0.2661
Mercury	79660-06-12 05:46 G	30816440.64	30816440.74	30816440.85	0.2625	0.1362
Mercury	79664-12-05 10:05 G	30818077.86	30818077.92	30818077.98	0.2708	0.2420
Mercury	79667-06-05 22:20 G	30818990.38	30818990.43	30818990.48	0.2625	0.2384
Mercury	79677-12-08 10:34 G	30822828.81	30822828.94	30822829.07	0.2708	0.0550
Mercury	79680-06-07 18:15 G	30823741.15	30823741.26	30823741.38	0.2625	0.1082
Mercury	79690-12-11 10:48 G	30827579.83	30827579.95	30827580.07	0.2707	0.1255
Mercury	79693-06-10 14:39 G	30828491.98	30828492.11	30828492.23	0.2625	0.0262
Mercury	79706-06-14 11:03 G	30833242.86	30833242.96	30833243.06	0.2625	0.1633
Mercury	79710-12-07 15:51 G	30834880.07	30834880.16	30834880.25	0.2708	0.2061
Mercury	79713-06-07 03:22 G	30835792.57	30835792.64	30835792.71	0.2625	0.2128
Mercury	79723-12-10 16:20 G	30839631.05	30839631.18	30839631.31	0.2708	0.0206
Mercury	79726-06-09 23:32 G	30840543.36	30840543.48	30840543.59	0.2625	0.0828
Mercury	79736-12-12 16:20 G	30844382.08	30844382.18	30844382.29	0.2707	0.1589
Mercury	79739-06-12 19:41 G	30845294.20	30845294.32	30845294.44	0.2625	0.0523
Mercury	79752-06-14 16:20 G	30850045.10	30850045.18	30850045.26	0.2625	0.1909
Mercury	79756-12-07 21:36 G	30851682.30	30851682.40	30851682.50	0.2708	0.1713
Venus	79758-04-21 20:10 G	30852182.18	30852182.34	30852182.50	0.2636	0.0503
Mercury	79759-06-08 08:39 G	30852594.77	30852594.86	30852594.94	0.2625	0.1878
Mercury	79769-12-10 22:05 G	30856433.28	30856433.42	30856433.55	0.2708	0.0146
Mercury	79772-06-10 04:34 G	30857345.57	30857345.69	30857345.81	0.2625	0.0564
Mercury	79782-12-13 22:05 G	30861184.33	30861184.42	30861184.51	0.2707	0.1922
Mercury	79785-06-13 00:58 G	30862096.42	30862096.54	30862096.66	0.2625	0.0788
Mercury	79798-06-15 21:36 G	30866847.33	30866847.40	30866847.46	0.2625	0.2181
Mercury	79802-12-10 03:22 G	30868484.52	30868484.64	30868484.75	0.2708	0.1360
Mercury	79805-06-09 13:41 G	30869396.98	30869397.07	30869397.17	0.2625	0.1618
Mercury	79815-12-13 03:36 G	30873235.52	30873235.65	30873235.79	0.2708	0.0490
Mercury	79818-06-12 09:51 G	30874147.78	30874147.91	30874148.03	0.2625	0.0308
Mercury	79828-12-15 03:36 G	30877986.58	30877986.65	30877986.72	0.2707	0.2256
Mercury	79831-06-15 06:15 G	30878898.64	30878898.76	30878898.87	0.2625	0.1062

Mercury	79844-06-17 02:39 G	30883649.57	30883649.61	30883649.66	0.2625	0.2460
Mercury	79848-12-10 09:08 G	30885286.75	30885286.88	30885287.00	0.2708	0.1014
Mercury	79851-06-10 18:44 G	30886199.18	30886199.28	30886199.39	0.2625	0.1366
Venus	79855-10-26 05:32 G	30887797.62	30887797.73	30887797.84	0.2697	0.1887
Mercury	79861-12-13 09:22 G	30890037.76	30890037.89	30890038.02	0.2708	0.0823
Venus	79863-10-23 20:53 G	30890717.24	30890717.37	30890717.50	0.2696	0.1464
Mercury	79864-06-12 14:53 G	30890950.00	30890950.12	30890950.25	0.2625	0.0086
Mercury	79874-12-16 09:22 G	30894788.85	30894788.89	30894788.92	0.2707	0.2582
Mercury	79877-06-15 11:17 G	30895700.87	30895700.97	30895701.08	0.2625	0.1334
Mercury	79881-12-08 14:10 G	30897338.05	30897338.09	30897338.13	0.2708	0.2545
Mercury	79884-06-08 04:05 G	30898250.62	30898250.67	30898250.71	0.2625	0.2402
Mercury	79894-12-11 14:53 G	30902088.99	30902089.12	30902089.25	0.2708	0.0660
Mercury	79897-06-11 00:00 G	30903001.39	30903001.50	30903001.61	0.2625	0.1110
Mercury	79907-12-15 15:08 G	30906840.01	30906840.13	30906840.25	0.2708	0.1162
Mercury	79910-06-14 20:10 G	30907752.22	30907752.34	30907752.46	0.2625	0.0229
Mercury	79923-06-17 16:34 G	30912503.09	30912503.19	30912503.29	0.2625	0.1608
Mercury	79927-12-10 19:56 G	30914140.25	30914140.33	30914140.41	0.2708	0.2191
Mercury	79930-06-10 09:08 G	30915052.81	30915052.88	30915052.95	0.2625	0.2156
Mercury	79940-12-12 20:39 G	30918891.22	30918891.36	30918891.49	0.2708	0.0310
Mercury	79943-06-13 05:03 G	30919803.60	30919803.71	30919803.83	0.2625	0.0851
Mercury	79953-12-15 20:39 G	30923642.25	30923642.36	30923642.47	0.2708	0.1505
Mercury	79956-06-15 01:27 G	30924554.43	30924554.56	30924554.68	0.2625	0.0503
Mercury	79969-06-17 21:51 G	30929305.32	30929305.41	30929305.49	0.2625	0.1876
Mercury	79973-12-11 01:41 G	30930942.47	30930942.57	30930942.67	0.2708	0.1831
Mercury	79976-06-10 14:10 G	30931855.01	30931855.09	30931855.17	0.2625	0.1901
Mercury	79986-12-14 02:10 G	30935693.46	30935693.59	30935693.73	0.2708	0.0090
Mercury	79989-06-13 10:20 G	30936605.81	30936605.93	30936606.05	0.2625	0.0597
Mercury	79999-12-17 02:24 G	30940444.50	30940444.60	30940444.70	0.2708	0.1838

81ST MILLENNIUM CE

This is a list of transits visible from Earth in the 81st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	80001-04-23 21:22	G	30940938.23	30940938.39	30940938.54	0.2636	0.0683	
Mercury	80002-06-16 06:29	G	30941356.65	30941356.77	30941356.89	0.2625	0.0760	
Venus	80009-04-21 12:00	G	30943857.98	30943858.00	30943858.02	0.2637	0.2604	
Mercury	80015-06-19 03:08	G	30946107.56	30946107.63	30946107.69	0.2625	0.2155	
Mercury	80019-12-12 07:27	G	30947744.70	30947744.81	30947744.92	0.2708	0.1479	
Mercury	80022-06-11 19:12	G	30948657.21	30948657.30	30948657.40	0.2625	0.1652	
Mercury	80032-12-14 07:56	G	30952495.70	30952495.83	30952495.96	0.2708	0.0384	
Mercury	80035-06-14 15:22	G	30953408.02	30953408.14	30953408.26	0.2625	0.0329	
Mercury	80045-12-17 07:56	G	30957246.76	30957246.83	30957246.91	0.2707	0.2176	
Mercury	80048-06-16 11:46	G	30958158.87	30958158.99	30958159.10	0.2625	0.1031	
Mercury	80061-06-19 08:10	G	30962909.80	30962909.84	30962909.89	0.2625	0.2426	
Mercury	80065-12-12 13:12	G	30964546.93	30964547.05	30964547.17	0.2708	0.1121	
Mercury	80068-06-12 00:29	G	30965459.42	30965459.52	30965459.62	0.2625	0.1391	
Mercury	80078-12-15 13:41	G	30969297.94	30969298.07	30969298.20	0.2708	0.0728	
Mercury	80081-06-14 20:39	G	30970210.23	30970210.36	30970210.48	0.2625	0.0101	
Mercury	80091-12-18 13:41	G	30974049.02	30974049.07	30974049.12	0.2708	0.2506	
Mercury	80094-06-17 16:48	G	30974961.10	30974961.20	30974961.31	0.2625	0.1304	
Venus	80098-10-27 07:12	G	30976553.69	30976553.80	30976553.90	0.2696	0.1974	
Mercury	80098-12-10 18:15	G	30976598.24	30976598.26	30976598.27	0.2708	0.2684	
Mercury	80101-06-11 09:36	G	30977510.86	30977510.90	30977510.95	0.2625	0.2429	

Venus	80106-10-25 22:34 G	30979473.31	30979473.44	30979473.58	0.2695	0.1349
Mercury	80111-12-14 18:58 G	30981349.16	30981349.29	30981349.42	0.2708	0.0772
Mercury	80114-06-14 05:32 G	30982261.62	30982261.73	30982261.84	0.2625	0.1137
Mercury	80124-12-16 19:27 G	30986100.18	30986100.31	30986100.43	0.2708	0.1077
Mercury	80127-06-17 01:41 G	30987012.45	30987012.57	30987012.70	0.2625	0.0215
Mercury	80140-06-18 22:05 G	30991763.32	30991763.42	30991763.52	0.2625	0.1570
Mercury	80144-12-12 00:00 G	30993400.43	30993400.50	30993400.57	0.2708	0.2321
Mercury	80147-06-12 14:53 G	30994313.05	30994313.12	30994313.18	0.2625	0.2177
Mercury	80157-12-15 00:44 G	30998151.39	30998151.53	30998151.66	0.2708	0.0423
Mercury	80160-06-14 10:48 G	30999063.83	30999063.95	30999064.06	0.2625	0.0873
Mercury	80170-12-18 00:58 G	31002902.43	31002902.54	31002902.65	0.2708	0.1408
Mercury	80173-06-17 06:58 G	31003814.67	31003814.79	31003814.91	0.2625	0.0467
Mercury	80186-06-20 03:22 G	31008565.55	31008565.64	31008565.72	0.2625	0.1849
Mercury	80190-12-13 05:46 G	31010202.65	31010202.74	31010202.83	0.2708	0.1960
Mercury	80193-06-12 19:56 G	31011115.25	31011115.33	31011115.41	0.2625	0.1925
Mercury	80203-12-17 06:29 G	31014953.63	31014953.77	31014953.90	0.2708	0.0107
Mercury	80206-06-16 15:51 G	31015866.04	31015866.16	31015866.28	0.2625	0.0616
Mercury	80216-12-19 06:44 G	31019704.68	31019704.78	31019704.88	0.2708	0.1753
Mercury	80219-06-19 12:00 G	31020616.89	31020617.00	31020617.12	0.2625	0.0742
Mercury	80232-06-21 08:24 G	31025367.78	31025367.85	31025367.93	0.2625	0.2122
Mercury	80236-12-14 11:32 G	31027004.87	31027004.98	31027005.09	0.2708	0.1596
Mercury	80239-06-15 00:58 G	31027917.45	31027917.54	31027917.64	0.2625	0.1671
Venus	80244-04-25 22:05 G	31029694.27	31029694.42	31029694.57	0.2637	0.0844
Mercury	80249-12-17 12:15 G	31031755.87	31031756.01	31031756.14	0.2708	0.0296
Venus	80252-04-23 12:44 G	31032613.97	31032614.03	31032614.09	0.2638	0.2452
Mercury	80252-06-16 21:08 G	31032668.26	31032668.38	31032668.50	0.2625	0.0357
Mercury	80262-12-20 12:15 G	31036506.93	31036507.01	31036507.10	0.2708	0.2091
Mercury	80265-06-19 17:17 G	31037419.11	31037419.22	31037419.33	0.2625	0.1005
Mercury	80278-06-22 13:41 G	31042170.02	31042170.07	31042170.12	0.2625	0.2400
Mercury	80282-12-15 17:17 G	31043807.10	31043807.22	31043807.34	0.2708	0.1242

Mercury	80285-06-15 06:15 G	31044719.65	31044719.76	31044719.86	0.2625	0.1419
Mercury	80295-12-18 18:00 G	31048558.11	31048558.25	31048558.38	0.2708	0.0639
Mercury	80298-06-18 02:10 G	31049470.47	31049470.59	31049470.72	0.2625	0.0099
Mercury	80308-12-21 18:00 G	31053309.20	31053309.25	31053309.31	0.2708	0.2433
Mercury	80311-06-21 22:20 G	31054221.33	31054221.43	31054221.54	0.2625	0.1278
Mercury	80318-06-14 15:22 G	31056771.10	31056771.14	31056771.18	0.2625	0.2453
Mercury	80328-12-16 23:03 G	31060609.33	31060609.46	31060609.59	0.2708	0.0883
Mercury	80331-06-17 11:17 G	31061521.86	31061521.97	31061522.08	0.2625	0.1158
Venus	80341-10-30 08:39 G	31065309.77	31065309.86	31065309.96	0.2696	0.2070
Mercury	80341-12-19 23:32 G	31065360.36	31065360.48	31065360.61	0.2708	0.0977
Mercury	80344-06-19 07:27 G	31066272.68	31066272.81	31066272.93	0.2625	0.0197
Venus	80349-10-28 00:15 G	31068229.38	31068229.51	31068229.65	0.2694	0.1256
Mercury	80357-06-22 03:36 G	31071023.55	31071023.65	31071023.75	0.2625	0.1543
Mercury	80361-12-15 03:51 G	31072660.61	31072660.66	31072660.72	0.2708	0.2454
Mercury	80364-06-14 20:39 G	31073573.29	31073573.36	31073573.42	0.2625	0.2201
Mercury	80374-12-18 04:48 G	31077411.57	31077411.70	31077411.83	0.2708	0.0532
Mercury	80377-06-17 16:20 G	31078324.07	31078324.18	31078324.30	0.2625	0.0904
Mercury	80387-12-21 05:17 G	31082162.60	31082162.72	31082162.84	0.2708	0.1325
Mercury	80390-06-20 12:29 G	31083074.90	31083075.02	31083075.14	0.2625	0.0440
Mercury	80403-06-23 08:53 G	31087825.78	31087825.87	31087825.96	0.2625	0.1816
Mercury	80407-12-16 09:51 G	31089462.82	31089462.91	31089462.99	0.2708	0.2090
Mercury	80410-06-16 01:41 G	31090375.49	31090375.57	31090375.65	0.2625	0.1944
Mercury	80420-12-18 10:34 G	31094213.81	31094213.94	31094214.08	0.2708	0.0175
Mercury	80423-06-18 21:36 G	31095126.28	31095126.40	31095126.52	0.2625	0.0638
Mercury	80433-12-21 11:03 G	31098964.85	31098964.96	31098965.06	0.2708	0.1667
Mercury	80436-06-20 17:46 G	31099877.12	31099877.24	31099877.35	0.2625	0.0711
Mercury	80449-06-23 13:56 G	31104628.01	31104628.08	31104628.16	0.2625	0.2095
Mercury	80453-12-16 15:36 G	31106265.04	31106265.15	31106265.25	0.2708	0.1729
Mercury	80456-06-16 06:44 G	31107177.69	31107177.78	31107177.87	0.2625	0.1692
Mercury	80466-12-19 16:20 G	31111016.05	31111016.18	31111016.31	0.2708	0.0177

Mercury	80469-06-19 02:39 G	31111928.49	31111928.61	31111928.73	0.2625	0.0380
Mercury	80479-12-22 16:34 G	31115767.11	31115767.19	31115767.28	0.2708	0.2013
Mercury	80482-06-21 22:48 G	31116679.34	31116679.45	31116679.57	0.2625	0.0980
Venus	80487-04-27 23:03 G	31118450.32	31118450.46	31118450.61	0.2638	0.1021
Venus	80495-04-25 13:41 G	31121369.99	31121370.07	31121370.15	0.2639	0.2287
Mercury	80495-06-24 19:12 G	31121430.25	31121430.30	31121430.35	0.2625	0.2366
Mercury	80499-12-17 21:22 G	31123067.27	31123067.39	31123067.51	0.2708	0.1362
Mercury	80502-06-18 12:00 G	31123979.89	31123980.00	31123980.10	0.2625	0.1438
Mercury	80512-12-20 22:05 G	31127818.29	31127818.42	31127818.55	0.2708	0.0532
Mercury	80515-06-21 07:56 G	31128730.70	31128730.83	31128730.95	0.2625	0.0141
Mercury	80525-12-23 22:20 G	31132569.37	31132569.43	31132569.49	0.2708	0.2348
Mercury	80528-06-23 04:05 G	31133481.56	31133481.67	31133481.78	0.2625	0.1246
Mercury	80535-06-16 21:22 G	31136031.35	31136031.39	31136031.42	0.2625	0.2474
Mercury	80545-12-19 03:08 G	31139869.51	31139869.63	31139869.76	0.2708	0.1001
Mercury	80548-06-18 17:03 G	31140782.10	31140782.21	31140782.32	0.2625	0.1178
Mercury	80558-12-22 03:51 G	31144620.53	31144620.66	31144620.79	0.2708	0.0883
Mercury	80561-06-21 12:58 G	31145532.92	31145533.04	31145533.16	0.2625	0.0156
Mercury	80571-12-25 03:51 G	31149371.66	31149371.66	31149371.67	0.2708	0.2694
Mercury	80574-06-24 09:08 G	31150283.78	31150283.88	31150283.98	0.2625	0.1524
Mercury	80578-12-17 07:56 G	31151920.79	31151920.83	31151920.87	0.2708	0.2584
Mercury	80581-06-17 02:24 G	31152833.53	31152833.60	31152833.66	0.2625	0.2220
Venus	80584-10-31 10:34 G	31154065.85	31154065.94	31154066.03	0.2695	0.2183
Mercury	80591-12-20 08:53 G	31156671.74	31156671.87	31156672.01	0.2708	0.0642
Venus	80592-10-29 02:24 G	31156985.45	31156985.60	31156985.74	0.2694	0.1125
Mercury	80594-06-19 22:05 G	31157584.31	31157584.42	31157584.54	0.2625	0.0923
Mercury	80604-12-23 09:36 G	31161422.78	31161422.90	31161423.02	0.2708	0.1235
Mercury	80607-06-23 18:15 G	31162335.13	31162335.26	31162335.38	0.2625	0.0423
Mercury	80620-06-25 14:24 G	31167086.01	31167086.10	31167086.19	0.2625	0.1793
Mercury	80624-12-18 13:41 G	31168723.00	31168723.07	31168723.15	0.2708	0.2217
Mercury	80627-06-19 07:27 G	31169635.73	31169635.81	31169635.89	0.2625	0.1972

Mercury	80637-12-21 14:39 G	31173473.98	31173474.11	31173474.25	0.2708	0.0288
Mercury	80640-06-21 03:08 G	31174386.52	31174386.63	31174386.75	0.2625	0.0670
Mercury	80650-12-24 15:08 G	31178225.03	31178225.13	31178225.24	0.2708	0.1584
Mercury	80653-06-23 23:17 G	31179137.35	31179137.47	31179137.59	0.2625	0.0685
Mercury	80666-06-26 19:41 G	31183888.24	31183888.32	31183888.39	0.2625	0.2066
Mercury	80670-12-19 19:41 G	31185525.22	31185525.32	31185525.42	0.2708	0.1849
Mercury	80673-06-19 12:29 G	31186437.93	31186438.02	31186438.11	0.2625	0.1715
Mercury	80683-12-22 20:24 G	31190276.22	31190276.35	31190276.49	0.2708	0.0086
Mercury	80686-06-22 08:24 G	31191188.73	31191188.85	31191188.97	0.2625	0.0405
Mercury	80696-12-24 20:53 G	31195027.28	31195027.37	31195027.46	0.2708	0.1925
Mercury	80699-06-25 04:34 G	31195939.57	31195939.69	31195939.80	0.2625	0.0952
Mercury	80712-06-28 00:44 G	31200690.48	31200690.53	31200690.59	0.2625	0.2340
Mercury	80716-12-21 01:27 G	31202327.44	31202327.56	31202327.67	0.2708	0.1486
Mercury	80719-06-21 17:32 G	31203240.13	31203240.23	31203240.33	0.2625	0.1459
Mercury	80729-12-24 02:10 G	31207078.46	31207078.59	31207078.73	0.2708	0.0430
Venus	80730-05-01 00:00 G	31207206.35	31207206.50	31207206.64	0.2639	0.1178
Mercury	80732-06-23 13:27 G	31207990.94	31207991.06	31207991.19	0.2625	0.0166
Venus	80738-04-28 14:24 G	31210126.01	31210126.10	31210126.19	0.2640	0.2147
Mercury	80742-12-27 02:39 G	31211829.54	31211829.61	31211829.68	0.2708	0.2274
Mercury	80745-06-26 09:36 G	31212741.79	31212741.90	31212742.01	0.2625	0.1221
Mercury	80752-06-19 03:08 G	31215291.59	31215291.63	31215291.66	0.2625	0.2491
Mercury	80758-06-29 06:00 G	31217492.74	31217492.75	31217492.75	0.2625	0.2614
Mercury	80762-12-22 07:12 G	31219129.68	31219129.80	31219129.92	0.2708	0.1121
Mercury	80765-06-21 22:48 G	31220042.34	31220042.45	31220042.56	0.2625	0.1202
Mercury	80775-12-25 07:56 G	31223880.70	31223880.83	31223880.96	0.2708	0.0782
Mercury	80778-06-24 18:44 G	31224793.16	31224793.28	31224793.40	0.2625	0.0130
Mercury	80788-12-27 08:10 G	31228631.81	31228631.84	31228631.88	0.2708	0.2615
Mercury	80791-06-27 14:53 G	31229544.02	31229544.12	31229544.22	0.2625	0.1495
Mercury	80798-06-20 08:10 G	31232093.78	31232093.84	31232093.90	0.2624	0.2244
Mercury	80808-12-22 12:58 G	31235931.91	31235932.04	31235932.17	0.2708	0.0756

Mercury	80811-06-23 03:51 G	31236844.55	31236844.66	31236844.77	0.2625	0.0943
Mercury	80821-12-25 13:41 G	31240682.95	31240683.07	31240683.19	0.2708	0.1137
Mercury	80824-06-24 23:46 G	31241595.37	31241595.49	31241595.61	0.2625	0.0402
Venus	80827-11-03 12:29 G	31242821.94	31242822.02	31242822.10	0.2694	0.2295
Venus	80835-11-01 04:20 G	31245741.53	31245741.68	31245741.82	0.2692	0.1002
Mercury	80837-06-27 19:56 G	31246346.24	31246346.33	31246346.42	0.2625	0.1768
Mercury	80841-12-20 17:46 G	31247983.17	31247983.24	31247983.31	0.2708	0.2346
Mercury	80844-06-20 13:12 G	31248895.97	31248896.05	31248896.13	0.2624	0.1988
Mercury	80854-12-23 18:44 G	31252734.15	31252734.28	31252734.42	0.2708	0.0394
Mercury	80857-06-23 08:53 G	31253646.76	31253646.87	31253646.99	0.2625	0.0691
Mercury	80867-12-26 19:27 G	31257485.20	31257485.31	31257485.42	0.2708	0.1490
Mercury	80870-06-26 05:03 G	31258397.59	31258397.71	31258397.83	0.2625	0.0664
Mercury	80883-06-29 01:12 G	31263148.47	31263148.55	31263148.62	0.2625	0.2040
Mercury	80887-12-21 23:32 G	31264785.39	31264785.48	31264785.57	0.2708	0.1978
Mercury	80890-06-21 18:15 G	31265698.17	31265698.26	31265698.35	0.2625	0.1737
Mercury	80900-12-25 00:29 G	31269536.39	31269536.52	31269536.66	0.2708	0.0068
Mercury	80903-06-25 14:10 G	31270448.97	31270449.09	31270449.21	0.2625	0.0420
Mercury	80913-12-28 01:12 G	31274287.45	31274287.55	31274287.65	0.2708	0.1843
Mercury	80916-06-27 10:05 G	31275199.81	31275199.92	31275200.04	0.2625	0.0929
Mercury	80929-06-30 06:15 G	31279950.71	31279950.76	31279950.82	0.2625	0.2318
Mercury	80933-12-23 05:17 G	31281587.62	31281587.72	31281587.83	0.2708	0.1609
Mercury	80936-06-22 23:17 G	31282500.38	31282500.47	31282500.57	0.2624	0.1484
Mercury	80946-12-26 06:15 G	31286338.63	31286338.76	31286338.90	0.2708	0.0331
Mercury	80949-06-25 19:12 G	31287251.18	31287251.30	31287251.42	0.2625	0.0163
Mercury	80959-12-29 06:58 G	31291089.71	31291089.79	31291089.86	0.2708	0.2192
Mercury	80962-06-28 15:22 G	31292002.03	31292002.14	31292002.24	0.2625	0.1201
Mercury	80969-06-21 08:53 G	31294551.84	31294551.87	31294551.90	0.2625	0.2515
Venus	80973-05-02 00:44 G	31295962.39	31295962.53	31295962.67	0.2640	0.1343
Mercury	80975-07-01 11:32 G	31296752.97	31296752.98	31296753.00	0.2625	0.2594
Mercury	80979-12-24 11:17 G	31298389.85	31298389.97	31298390.09	0.2708	0.1241

Venus	80981-04-29 15:08 G	31298882.03	31298882.13	31298882.23	0.2641	0.1996
Mercury	80982-06-24 04:34 G	31299302.58	31299302.69	31299302.79	0.2625	0.1227
Mercury	80992-12-26 12:00 G	31303140.87	31303141.00	31303141.14	0.2708	0.0693
Mercury	80995-06-27 00:15 G	31304053.39	31304053.51	31304053.64	0.2625	0.0134

82ND MILLENNIUM CE

This is a list of transits visible from Earth in the 82nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	81005-12-30 12:29 G		31307891.98	31307892.02	31307892.07	0.2708	0.2539	
Mercury	81008-06-29 20:24 G		31308804.25	31308804.35	31308804.45	0.2625	0.1468	
Mercury	81015-06-23 13:56 G		31311354.02	31311354.08	31311354.14	0.2625	0.2258	
Mercury	81025-12-25 17:03 G		31315192.08	31315192.21	31315192.34	0.2708	0.0874	
Mercury	81028-06-25 09:36 G		31316104.79	31316104.90	31316105.01	0.2625	0.0964	
Mercury	81038-12-28 17:46 G		31319943.12	31319943.24	31319943.37	0.2708	0.1046	
Mercury	81041-06-28 05:32 G		31320855.61	31320855.73	31320855.85	0.2625	0.0371	
Mercury	81054-07-01 01:41 G		31325606.47	31325606.57	31325606.66	0.2625	0.1740	
Mercury	81058-12-23 21:36 G		31327243.35	31327243.40	31327243.45	0.2708	0.2490	
Mercury	81061-06-23 18:58 G		31328156.22	31328156.29	31328156.37	0.2625	0.2010	
Venus	81070-11-05 14:24 G		31331578.03	31331578.10	31331578.17	0.2693	0.2407	
Mercury	81071-12-26 22:48 G		31331994.32	31331994.45	31331994.58	0.2708	0.0510	
Mercury	81074-06-26 14:39 G		31332907.00	31332907.11	31332907.23	0.2625	0.0705	
Venus	81078-11-03 06:15 G		31334497.61	31334497.76	31334497.91	0.2692	0.0876	
Mercury	81084-12-28 23:32 G		31336745.37	31336745.48	31336745.60	0.2708	0.1398	

Mercury	81087-06-29 10:34 G	31337657.82	31337657.94	31337658.06	0.2625	0.0643
Mercury	81100-07-02 06:44 G	31342408.71	31342408.78	31342408.86	0.2625	0.2016
Mercury	81104-12-25 03:22 G	31344045.56	31344045.64	31344045.73	0.2708	0.2110
Mercury	81107-06-26 00:00 G	31344958.42	31344958.50	31344958.59	0.2624	0.1754
Mercury	81117-12-28 04:34 G	31348796.56	31348796.69	31348796.83	0.2708	0.0148
Mercury	81120-06-27 19:56 G	31349709.21	31349709.33	31349709.45	0.2625	0.0453
Mercury	81130-12-31 05:17 G	31353547.62	31353547.72	31353547.82	0.2708	0.1749
Mercury	81133-06-30 15:51 G	31354460.04	31354460.16	31354460.27	0.2625	0.0908
Mercury	81146-07-03 12:00 G	31359210.94	31359211.00	31359211.06	0.2625	0.2294
Mercury	81150-12-26 09:22 G	31360847.78	31360847.89	31360847.99	0.2708	0.1736
Mercury	81153-06-26 05:17 G	31361760.62	31361760.72	31361760.81	0.2625	0.1504
Mercury	81163-12-29 10:20 G	31365598.80	31365598.93	31365599.07	0.2708	0.0240
Mercury	81166-06-29 00:58 G	31366511.42	31366511.54	31366511.66	0.2625	0.0182
Mercury	81176-12-31 11:03 G	31370349.88	31370349.96	31370350.04	0.2708	0.2103
Mercury	81179-07-01 20:53 G	31371262.26	31371262.37	31371262.48	0.2625	0.1177
Mercury	81186-06-24 14:39 G	31373812.08	31373812.11	31373812.14	0.2624	0.2531
Mercury	81192-07-03 17:03 G	31376013.19	31376013.21	31376013.24	0.2625	0.2569
Mercury	81196-12-26 15:08 G	31377650.02	31377650.13	31377650.25	0.2708	0.1362
Mercury	81199-06-27 10:20 G	31378562.82	31378562.93	31378563.03	0.2624	0.1243
Mercury	81209-12-29 16:05 G	31382401.04	31382401.17	31382401.31	0.2708	0.0592
Mercury	81212-06-29 06:00 G	31383313.63	31383313.75	31383313.87	0.2625	0.0093
Venus	81216-05-04 01:27 G	31384718.43	31384718.56	31384718.69	0.2640	0.1487
Mercury	81223-01-01 16:48 G	31387152.14	31387152.20	31387152.25	0.2708	0.2457
Venus	81224-05-01 15:51 G	31387638.04	31387638.16	31387638.27	0.2642	0.1858
Mercury	81225-07-02 02:10 G	31388064.49	31388064.59	31388064.69	0.2625	0.1446
Mercury	81232-06-24 19:41 G	31390614.27	31390614.32	31390614.38	0.2625	0.2285
Mercury	81242-12-27 20:53 G	31394452.25	31394452.37	31394452.50	0.2708	0.0998
Mercury	81245-06-27 15:22 G	31395365.03	31395365.14	31395365.25	0.2625	0.0986
Mercury	81255-12-30 21:51 G	31399203.29	31399203.41	31399203.54	0.2708	0.0949
Mercury	81258-06-30 11:17 G	31400115.85	31400115.97	31400116.09	0.2625	0.0355

Mercury	81271-07-03 07:12 G	31404866.71	31404866.80	31404866.89	0.2625	0.1718
Mercury	81275-12-26 01:27 G	31406503.53	31406503.56	31406503.59	0.2708	0.2621
Mercury	81278-06-26 00:44 G	31407416.46	31407416.53	31407416.61	0.2625	0.2029
Mercury	81288-12-28 02:53 G	31411254.48	31411254.62	31411254.75	0.2708	0.0624
Mercury	81291-06-28 20:24 G	31412167.23	31412167.35	31412167.47	0.2624	0.0729
Mercury	81302-01-01 03:36 G	31416005.53	31416005.65	31416005.77	0.2708	0.1302
Mercury	81304-07-01 16:20 G	31416918.06	31416918.18	31416918.30	0.2625	0.0611
Venus	81313-11-07 16:34 G	31420334.14	31420334.19	31420334.23	0.2692	0.2543
Mercury	81317-07-04 12:29 G	31421668.94	31421669.02	31421669.10	0.2625	0.1993
Venus	81321-11-05 08:10 G	31423253.69	31423253.84	31423253.99	0.2691	0.0749
Mercury	81321-12-27 07:27 G	31423305.73	31423305.81	31423305.88	0.2708	0.2250
Mercury	81324-06-27 05:46 G	31424218.66	31424218.74	31424218.83	0.2625	0.1779
Mercury	81334-12-30 08:39 G	31428056.72	31428056.86	31428057.00	0.2708	0.0253
Mercury	81337-06-30 01:27 G	31428969.45	31428969.56	31428969.68	0.2625	0.0476
Mercury	81348-01-02 09:22 G	31432807.79	31432807.89	31432808.00	0.2708	0.1664
Mercury	81350-07-02 21:22 G	31433720.28	31433720.39	31433720.51	0.2625	0.0887
Mercury	81363-07-05 17:32 G	31438471.17	31438471.23	31438471.29	0.2625	0.2261
Mercury	81367-12-28 13:12 G	31440107.95	31440108.05	31440108.15	0.2708	0.1870
Mercury	81370-06-28 11:03 G	31441020.86	31441020.96	31441021.05	0.2624	0.1518
Mercury	81380-12-30 14:24 G	31444858.96	31444859.10	31444859.24	0.2708	0.0109
Mercury	81383-07-01 06:44 G	31445771.66	31445771.78	31445771.90	0.2625	0.0203
Mercury	81394-01-02 15:08 G	31449610.04	31449610.13	31449610.22	0.2708	0.2016
Mercury	81396-07-03 02:39 G	31450522.50	31450522.61	31450522.72	0.2625	0.1150
Mercury	81403-06-27 20:24 G	31453072.33	31453072.35	31453072.38	0.2624	0.2553
Mercury	81409-07-06 22:48 G	31455273.42	31455273.45	31455273.47	0.2625	0.2541
Mercury	81413-12-29 18:58 G	31456910.18	31456910.29	31456910.41	0.2708	0.1498
Mercury	81416-06-29 16:05 G	31457823.06	31457823.17	31457823.27	0.2625	0.1264
Mercury	81427-01-01 20:10 G	31461661.21	31461661.34	31461661.47	0.2708	0.0474
Mercury	81429-07-02 11:46 G	31462573.87	31462573.99	31462574.11	0.2625	0.0086
Mercury	81440-01-04 20:53 G	31466412.31	31466412.37	31466412.43	0.2708	0.2370

Mercury	81442-07-05 07:41 G	31467324.72	31467324.82	31467324.93	0.2625	0.1425
Mercury	81449-06-28 01:27 G	31469874.51	31469874.56	31469874.62	0.2625	0.2303
Venus	81459-05-07 01:56 G	31473474.45	31473474.58	31473474.71	0.2641	0.1624
Mercury	81459-12-31 00:58 G	31473712.41	31473712.54	31473712.66	0.2708	0.1114
Mercury	81462-06-30 21:08 G	31474625.27	31474625.38	31474625.49	0.2624	0.1005
Venus	81467-05-04 16:05 G	31476394.05	31476394.17	31476394.30	0.2643	0.1743
Mercury	81473-01-02 01:56 G	31478463.45	31478463.58	31478463.71	0.2708	0.0838
Mercury	81475-07-03 17:03 G	31479376.08	31479376.21	31479376.33	0.2624	0.0340
Mercury	81488-07-05 12:58 G	31484126.94	31484127.04	31484127.13	0.2625	0.1697
Mercury	81495-06-29 06:44 G	31486676.70	31486676.78	31486676.85	0.2624	0.2052
Mercury	81506-01-01 06:44 G	31490514.65	31490514.78	31490514.91	0.2708	0.0745
Mercury	81508-07-02 02:10 G	31491427.48	31491427.59	31491427.71	0.2625	0.0751
Mercury	81519-01-04 07:56 G	31495265.70	31495265.83	31495265.95	0.2708	0.1213
Mercury	81521-07-04 22:05 G	31496178.30	31496178.42	31496178.54	0.2624	0.0595
Mercury	81534-07-07 18:00 G	31500929.17	31500929.25	31500929.33	0.2625	0.1965
Mercury	81538-12-30 11:17 G	31502565.90	31502565.97	31502566.03	0.2708	0.2385
Mercury	81541-06-30 11:46 G	31503478.90	31503478.99	31503479.07	0.2624	0.1797
Mercury	81552-01-02 12:29 G	31507316.89	31507317.02	31507317.16	0.2708	0.0377
Mercury	81554-07-03 07:27 G	31508229.69	31508229.81	31508229.92	0.2624	0.0494
Venus	81556-11-09 18:15 G	31509090.23	31509090.26	31509090.29	0.2691	0.2633
Venus	81564-11-07 10:20 G	31512009.78	31512009.93	31512010.08	0.2690	0.0616
Mercury	81565-01-04 13:41 G	31512067.96	31512068.07	31512068.18	0.2708	0.1569
Mercury	81567-07-06 03:08 G	31512980.52	31512980.63	31512980.75	0.2624	0.0857
Mercury	81580-07-07 23:17 G	31517731.40	31517731.47	31517731.53	0.2625	0.2242
Mercury	81584-12-30 17:03 G	31519368.12	31519368.21	31519368.30	0.2708	0.2006
Mercury	81587-07-01 16:48 G	31520281.10	31520281.20	31520281.29	0.2625	0.1544
Mercury	81598-01-02 18:29 G	31524119.13	31524119.27	31524119.40	0.2708	0.0086
Mercury	81600-07-03 12:29 G	31525031.90	31525032.02	31525032.14	0.2624	0.0229
Mercury	81611-01-05 19:27 G	31528870.21	31528870.31	31528870.40	0.2708	0.1930
Mercury	81613-07-06 08:10 G	31529782.73	31529782.84	31529782.95	0.2624	0.1131

Mercury	81620-06-29 02:24 G	31532332.58	31532332.60	31532332.62	0.2625	0.2571
Mercury	81626-07-09 04:20 G	31534533.65	31534533.68	31534533.71	0.2625	0.2514
Mercury	81630-12-31 23:03 G	31536170.35	31536170.46	31536170.57	0.2708	0.1624
Mercury	81633-07-01 21:51 G	31537083.31	31537083.41	31537083.52	0.2624	0.1282
Mercury	81644-01-04 00:15 G	31540921.37	31540921.51	31540921.64	0.2708	0.0368
Mercury	81646-07-04 17:32 G	31541834.11	31541834.23	31541834.35	0.2624	0.0036
Mercury	81657-01-06 00:58 G	31545672.47	31545672.54	31545672.61	0.2708	0.2285
Mercury	81659-07-07 13:27 G	31546584.95	31546585.06	31546585.16	0.2625	0.1396
Mercury	81666-06-30 07:27 G	31549134.76	31549134.81	31549134.86	0.2624	0.2319
Mercury	81677-01-01 04:48 G	31552972.58	31552972.70	31552972.82	0.2708	0.1251
Mercury	81679-07-03 02:53 G	31553885.51	31553885.62	31553885.73	0.2625	0.1029
Mercury	81690-01-04 06:00 G	31557723.62	31557723.75	31557723.88	0.2708	0.0740
Mercury	81692-07-04 22:34 G	31558636.32	31558636.44	31558636.56	0.2625	0.0312
Venus	81702-05-09 02:39 G	31562230.49	31562230.61	31562230.73	0.2642	0.1772
Mercury	81703-01-08 06:44 G	31562474.76	31562474.78	31562474.81	0.2708	0.2645
Mercury	81705-07-08 18:29 G	31563387.18	31563387.27	31563387.37	0.2625	0.1670
Venus	81710-05-06 16:48 G	31565150.07	31565150.20	31565150.32	0.2644	0.1605
Mercury	81712-07-01 12:29 G	31565936.95	31565937.02	31565937.09	0.2624	0.2067
Mercury	81723-01-03 10:34 G	31569774.81	31569774.94	31569775.07	0.2708	0.0870
Mercury	81725-07-04 07:56 G	31570687.72	31570687.83	31570687.95	0.2624	0.0771
Mercury	81736-01-06 11:46 G	31574525.87	31574525.99	31574526.12	0.2708	0.1100
Mercury	81738-07-07 03:51 G	31575438.54	31575438.66	31575438.77	0.2624	0.0577
Mercury	81751-07-09 23:46 G	31580189.41	31580189.49	31580189.57	0.2625	0.1944
Mercury	81756-01-01 14:53 G	31581826.08	31581826.12	31581826.17	0.2708	0.2529
Mercury	81758-07-02 17:32 G	31582739.15	31582739.23	31582739.32	0.2624	0.1815
Mercury	81769-01-03 16:34 G	31586577.05	31586577.19	31586577.32	0.2708	0.0497
Mercury	81771-07-05 13:12 G	31587489.93	31587490.05	31587490.16	0.2624	0.0513
Mercury	81782-01-06 17:32 G	31591328.12	31591328.23	31591328.35	0.2708	0.1470
Mercury	81784-07-07 08:53 G	31592240.75	31592240.87	31592240.98	0.2624	0.0840
Mercury	81797-07-10 04:48 G	31596991.64	31596991.70	31596991.77	0.2624	0.2220

Mercury	81802-01-02 20:53 G	31598628.29	31598628.37	31598628.45	0.2708	0.2139
Mercury	81804-07-03 22:34 G	31599541.35	31599541.44	31599541.54	0.2624	0.1560
Venus	81807-11-10 12:29 G	31600765.87	31600766.02	31600766.17	0.2689	0.0486
Mercury	81815-01-05 22:20 G	31603379.30	31603379.43	31603379.57	0.2708	0.0125
Mercury	81817-07-06 18:15 G	31604292.14	31604292.26	31604292.38	0.2624	0.0250
Mercury	81828-01-08 23:17 G	31608130.37	31608130.47	31608130.57	0.2708	0.1832
Mercury	81830-07-09 13:56 G	31609042.97	31609043.08	31609043.19	0.2624	0.1107
Mercury	81837-07-02 08:10 G	31611592.83	31611592.84	31611592.86	0.2624	0.2593
Mercury	81843-07-12 10:05 G	31613793.88	31613793.92	31613793.95	0.2624	0.2498
Mercury	81848-01-04 02:53 G	31615430.51	31615430.62	31615430.72	0.2708	0.1762
Mercury	81850-07-05 03:36 G	31616343.55	31616343.65	31616343.76	0.2624	0.1307
Mercury	81861-01-06 04:20 G	31620181.54	31620181.68	31620181.81	0.2708	0.0271
Mercury	81863-07-07 23:17 G	31621094.35	31621094.47	31621094.59	0.2624	0.0021
Mercury	81874-01-09 05:17 G	31624932.64	31624932.72	31624932.79	0.2708	0.2200
Mercury	81876-07-09 19:12 G	31625845.19	31625845.30	31625845.40	0.2624	0.1380
Mercury	81883-07-03 13:12 G	31628395.00	31628395.05	31628395.11	0.2625	0.2341
Mercury	81894-01-04 08:39 G	31632232.74	31632232.86	31632232.98	0.2708	0.1373
Mercury	81896-07-05 08:39 G	31633145.75	31633145.86	31633145.97	0.2624	0.1050
Mercury	81907-01-08 10:05 G	31636983.78	31636983.92	31636984.05	0.2708	0.0634
Mercury	81909-07-09 04:20 G	31637896.56	31637896.68	31637896.80	0.2624	0.0283
Mercury	81920-01-11 10:48 G	31641734.91	31641734.95	31641735.00	0.2708	0.2555
Mercury	81922-07-12 00:15 G	31642647.42	31642647.51	31642647.60	0.2624	0.1646
Mercury	81929-07-04 18:15 G	31645197.19	31645197.26	31645197.34	0.2625	0.2090
Mercury	81940-01-06 14:39 G	31649034.98	31649035.11	31649035.23	0.2708	0.1000
Mercury	81942-07-07 13:41 G	31649947.96	31649948.07	31649948.19	0.2625	0.0794
Venus	81945-05-11 02:39 G	31650986.50	31650986.61	31650986.73	0.2643	0.1874
Mercury	81953-01-08 15:51 G	31653786.03	31653786.16	31653786.28	0.2708	0.0999
Venus	81953-05-08 16:48 G	31653906.07	31653906.20	31653906.34	0.2645	0.1516
Mercury	81955-07-10 09:36 G	31654698.78	31654698.90	31654699.01	0.2624	0.0556
Mercury	81968-07-12 05:17 G	31659449.64	31659449.72	31659449.81	0.2624	0.1923

Mercury	81973-01-03 18:44 G	31661086.26	31661086.28	31661086.30	0.2708	0.2675
Mercury	81975-07-05 23:17 G	31661999.39	31661999.47	31661999.56	0.2625	0.1835
Mercury	81986-01-06 20:24 G	31665837.22	31665837.35	31665837.48	0.2708	0.0614
Mercury	81988-07-07 18:58 G	31666750.17	31666750.29	31666750.41	0.2624	0.0527
Mercury	81999-01-09 21:36 G	31670588.28	31670588.40	31670588.52	0.2708	0.1366

83RD MILLENNIUM CE

This is a list of transits visible from Earth in the 83rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	82001-07-10 14:39 G	31671500.99	31671501.11	31671501.22	0.2625	0.0817		
Mercury	82014-07-13 10:34 G	31676251.87	31676251.94	31676252.00	0.2624	0.2195		
Mercury	82019-01-05 00:44 G	31677888.45	31677888.53	31677888.60	0.2708	0.2286		
Mercury	82021-07-06 04:20 G	31678801.59	31678801.68	31678801.78	0.2624	0.1582		
Mercury	82032-01-08 02:10 G	31682639.46	31682639.59	31682639.73	0.2708	0.0244		
Mercury	82034-07-09 00:00 G	31683552.38	31683552.50	31683552.62	0.2625	0.0265		
Mercury	82045-01-10 03:22 G	31687390.54	31687390.64	31687390.74	0.2708	0.1736		
Mercury	82047-07-11 19:41 G	31688303.21	31688303.32	31688303.43	0.2624	0.1092		
Venus	82050-11-11 14:39 G	31689521.96	31689522.11	31689522.27	0.2688	0.0340		
Mercury	82054-07-04 14:10 G	31690853.08	31690853.09	31690853.10	0.2625	0.2606		
Mercury	82060-07-13 15:36 G	31693054.11	31693054.15	31693054.19	0.2624	0.2471		
Mercury	82065-01-05 06:29 G	31694690.68	31694690.77	31694690.87	0.2708	0.1897		
Mercury	82067-07-07 09:36 G	31695603.79	31695603.90	31695604.00	0.2624	0.1324		
Mercury	82078-01-08 08:10 G	31699441.70	31699441.84	31699441.97	0.2708	0.0164		

Mercury	82080-07-09 05:03 G	31700354.59	31700354.71	31700354.83	0.2624	0.0052
Mercury	82091-01-11 09:08 G	31704192.80	31704192.88	31704192.97	0.2708	0.2099
Mercury	82093-07-12 00:44 G	31705105.43	31705105.53	31705105.64	0.2624	0.1359
Mercury	82100-07-05 19:12 G	31707655.25	31707655.30	31707655.35	0.2624	0.2360
Mercury	82111-01-07 12:29 G	31711492.90	31711493.02	31711493.13	0.2708	0.1508
Mercury	82113-07-08 14:39 G	31712406.00	31712406.11	31712406.22	0.2624	0.1066
Mercury	82124-01-10 13:56 G	31716243.95	31716244.08	31716244.21	0.2708	0.0517
Mercury	82126-07-11 10:20 G	31717156.80	31717156.93	31717157.05	0.2624	0.0282
Mercury	82137-01-12 14:53 G	31720995.07	31720995.12	31720995.18	0.2708	0.2473
Mercury	82139-07-14 06:00 G	31721907.65	31721907.75	31721907.84	0.2624	0.1629
Mercury	82146-07-07 00:15 G	31724457.44	31724457.51	31724457.58	0.2625	0.2107
Mercury	82157-01-07 18:15 G	31728295.14	31728295.26	31728295.39	0.2708	0.1126
Mercury	82159-07-09 19:41 G	31729208.21	31729208.32	31729208.43	0.2624	0.0806
Mercury	82170-01-10 19:41 G	31733046.19	31733046.32	31733046.45	0.2708	0.0897
Mercury	82172-07-11 15:22 G	31733959.02	31733959.14	31733959.26	0.2624	0.0534
Mercury	82185-07-14 11:03 G	31738709.88	31738709.96	31738710.04	0.2624	0.1900
Venus	82188-05-12 03:22 G	31739742.54	31739742.64	31739742.74	0.2644	0.2023
Mercury	82192-07-07 05:17 G	31741259.64	31741259.72	31741259.80	0.2624	0.1855
Venus	82196-05-09 17:17 G	31742662.09	31742662.22	31742662.36	0.2646	0.1386
Mercury	82203-01-10 00:15 G	31745097.38	31745097.51	31745097.64	0.2708	0.0741
Mercury	82205-07-11 00:44 G	31746010.41	31746010.53	31746010.65	0.2624	0.0547
Mercury	82216-01-13 01:41 G	31749848.45	31749848.57	31749848.69	0.2708	0.1270
Mercury	82218-07-13 20:24 G	31750761.23	31750761.35	31750761.46	0.2624	0.0797
Mercury	82231-07-16 16:05 G	31755512.11	31755512.17	31755512.24	0.2624	0.2176
Mercury	82236-01-08 04:20 G	31757148.62	31757148.68	31757148.74	0.2708	0.2432
Mercury	82238-07-09 10:20 G	31758061.84	31758061.93	31758062.03	0.2625	0.1595
Mercury	82249-01-10 06:00 G	31761899.62	31761899.75	31761899.89	0.2708	0.0362
Mercury	82251-07-12 05:46 G	31762812.62	31762812.74	31762812.86	0.2624	0.0288
Mercury	82262-01-13 07:27 G	31766650.70	31766650.81	31766650.92	0.2708	0.1641
Mercury	82264-07-14 01:27 G	31767563.45	31767563.56	31767563.67	0.2624	0.1062

Mercury	82277-07-16 21:22 G	31772314.35	31772314.39	31772314.43	0.2624	0.2446
Mercury	82282-01-08 10:20 G	31773950.84	31773950.93	31773951.02	0.2708	0.2041
Mercury	82284-07-09 15:22 G	31774864.04	31774864.14	31774864.24	0.2625	0.1339
Venus	82293-11-13 17:03 G	31778278.05	31778278.21	31778278.36	0.2687	0.0201
Mercury	82295-01-11 12:00 G	31778701.86	31778702.00	31778702.14	0.2708	0.0041
Mercury	82297-07-12 10:48 G	31779614.83	31779614.95	31779615.08	0.2624	0.0095
Mercury	82308-01-15 13:12 G	31783452.96	31783453.05	31783453.14	0.2708	0.2014
Mercury	82310-07-16 06:29 G	31784365.67	31784365.77	31784365.88	0.2624	0.1337
Mercury	82317-07-09 01:12 G	31786915.50	31786915.55	31786915.59	0.2625	0.2375
Mercury	82328-01-10 16:05 G	31790753.07	31790753.17	31790753.28	0.2708	0.1650
Mercury	82330-07-11 20:24 G	31791666.24	31791666.35	31791666.46	0.2624	0.1082
Mercury	82341-01-12 17:46 G	31795504.11	31795504.24	31795504.38	0.2708	0.0408
Mercury	82343-07-14 16:05 G	31796417.04	31796417.17	31796417.29	0.2624	0.0265
Mercury	82354-01-15 18:58 G	31800255.23	31800255.29	31800255.35	0.2708	0.2377
Mercury	82356-07-16 11:46 G	31801167.89	31801167.99	31801168.08	0.2624	0.1610
Mercury	82363-07-10 06:15 G	31803717.69	31803717.76	31803717.82	0.2624	0.2124
Mercury	82374-01-10 22:05 G	31807555.30	31807555.42	31807555.54	0.2708	0.1256
Mercury	82376-07-12 01:27 G	31808468.45	31808468.56	31808468.68	0.2624	0.0825
Mercury	82387-01-13 23:46 G	31812306.36	31812306.49	31812306.62	0.2708	0.0787
Mercury	82389-07-14 21:08 G	31813219.26	31813219.38	31813219.50	0.2624	0.0516
Mercury	82402-07-17 16:48 G	31817970.12	31817970.20	31817970.28	0.2624	0.1883
Mercury	82409-07-10 11:17 G	31820519.88	31820519.97	31820520.05	0.2624	0.1866
Mercury	82420-01-12 04:05 G	31824357.54	31824357.67	31824357.80	0.2708	0.0863
Mercury	82422-07-13 06:29 G	31825270.66	31825270.77	31825270.89	0.2624	0.0569
Venus	82431-05-15 03:36 G	31828498.55	31828498.65	31828498.74	0.2645	0.2119
Mercury	82433-01-14 05:32 G	31829108.61	31829108.73	31829108.86	0.2708	0.1168
Mercury	82435-07-16 02:10 G	31830021.47	31830021.59	31830021.70	0.2624	0.0779
Venus	82439-05-12 17:32 G	31831418.09	31831418.23	31831418.37	0.2647	0.1293
Mercury	82448-07-17 21:51 G	31834772.35	31834772.41	31834772.48	0.2624	0.2156
Mercury	82453-01-09 07:56 G	31836408.80	31836408.83	31836408.87	0.2708	0.2579

Mercury	82455-07-11 16:20 G	31837322.08	31837322.18	31837322.27	0.2624	0.1618
Mercury	82466-01-12 09:51 G	31841159.78	31841159.91	31841160.05	0.2708	0.0486
Mercury	82468-07-13 11:32 G	31842072.86	31842072.98	31842073.10	0.2624	0.0312
Mercury	82479-01-15 11:32 G	31845910.86	31845910.98	31845911.09	0.2708	0.1544
Mercury	82481-07-16 07:12 G	31846823.69	31846823.80	31846823.91	0.2624	0.1049
Mercury	82494-07-19 03:08 G	31851574.59	31851574.63	31851574.67	0.2624	0.2432
Mercury	82499-01-10 13:56 G	31853211.00	31853211.08	31853211.17	0.2708	0.2178
Mercury	82501-07-12 21:22 G	31854124.28	31854124.39	31854124.49	0.2624	0.1360
Mercury	82512-01-14 15:51 G	31857962.02	31857962.16	31857962.30	0.2708	0.0092
Mercury	82514-07-15 16:34 G	31858875.07	31858875.19	31858875.32	0.2624	0.0108
Mercury	82525-01-16 17:17 G	31862713.12	31862713.22	31862713.31	0.2708	0.1917
Mercury	82527-07-18 12:15 G	31863625.91	31863626.01	31863626.12	0.2624	0.1321
Mercury	82534-07-11 06:58 G	31866175.75	31866175.79	31866175.84	0.2625	0.2392
Venus	82536-11-15 19:27 G	31867034.15	31867034.31	31867034.46	0.2686	0.0079
Mercury	82545-01-11 19:56 G	31870013.23	31870013.33	31870013.44	0.2708	0.1783
Mercury	82547-07-14 02:24 G	31870926.49	31870926.60	31870926.70	0.2625	0.1106
Mercury	82558-01-14 21:51 G	31874764.27	31874764.41	31874764.54	0.2708	0.0305
Mercury	82560-07-15 21:51 G	31875677.29	31875677.41	31875677.53	0.2624	0.0239
Mercury	82571-01-17 23:03 G	31879515.39	31879515.46	31879515.53	0.2708	0.2290
Mercury	82573-07-18 17:32 G	31880428.13	31880428.23	31880428.32	0.2624	0.1589
Mercury	82580-07-11 12:00 G	31882977.94	31882978.00	31882978.07	0.2625	0.2136
Mercury	82591-01-13 01:56 G	31886815.46	31886815.58	31886815.70	0.2708	0.1388
Mercury	82593-07-14 07:27 G	31887728.69	31887728.81	31887728.92	0.2624	0.0840
Mercury	82604-01-17 03:36 G	31891566.52	31891566.65	31891566.78	0.2708	0.0678
Mercury	82606-07-18 02:53 G	31892479.50	31892479.62	31892479.74	0.2624	0.0493
Mercury	82617-01-19 04:48 G	31896317.68	31896317.70	31896317.72	0.2708	0.2660
Mercury	82619-07-20 22:34 G	31897230.36	31897230.44	31897230.52	0.2624	0.1861
Mercury	82626-07-13 17:03 G	31899780.13	31899780.21	31899780.29	0.2625	0.1886
Mercury	82637-01-14 07:56 G	31903617.70	31903617.83	31903617.95	0.2708	0.1002
Mercury	82639-07-16 12:29 G	31904530.90	31904531.02	31904531.13	0.2625	0.0580

Mercury	82650-01-17 09:22 G	31908368.77	31908368.89	31908369.02	0.2708	0.1055
Mercury	82652-07-18 07:56 G	31909281.72	31909281.83	31909281.95	0.2624	0.0769
Mercury	82665-07-21 03:36 G	31914032.59	31914032.65	31914032.72	0.2624	0.2141
Mercury	82672-07-13 22:05 G	31916582.33	31916582.42	31916582.51	0.2625	0.1628
Venus	82674-05-17 03:51 G	31917254.58	31917254.66	31917254.75	0.2647	0.2256
Venus	82682-05-14 18:00 G	31920174.10	31920174.25	31920174.39	0.2648	0.1180
Mercury	82683-01-15 13:41 G	31920419.94	31920420.07	31920420.21	0.2708	0.0606
Mercury	82685-07-16 17:32 G	31921333.11	31921333.23	31921333.35	0.2624	0.0317
Mercury	82696-01-18 15:22 G	31925171.02	31925171.14	31925171.25	0.2708	0.1438
Mercury	82698-07-19 12:58 G	31926083.93	31926084.04	31926084.16	0.2624	0.1037
Mercury	82711-07-23 08:53 G	31930834.82	31930834.87	31930834.91	0.2624	0.2417
Mercury	82716-01-14 17:46 G	31932471.17	31932471.24	31932471.31	0.2708	0.2321
Mercury	82718-07-16 03:08 G	31933384.53	31933384.63	31933384.73	0.2624	0.1376
Mercury	82729-01-16 19:41 G	31937222.18	31937222.32	31937222.46	0.2708	0.0210
Mercury	82731-07-18 22:34 G	31938135.32	31938135.44	31938135.56	0.2624	0.0053
Mercury	82742-01-19 21:08 G	31941973.28	31941973.38	31941973.48	0.2709	0.1818
Mercury	82744-07-20 18:15 G	31942886.15	31942886.26	31942886.36	0.2624	0.1305
Mercury	82751-07-14 12:58 G	31945436.00	31945436.04	31945436.08	0.2625	0.2408
Mercury	82762-01-14 23:46 G	31949273.39	31949273.49	31949273.58	0.2708	0.1921
Mercury	82764-07-16 08:10 G	31950186.73	31950186.84	31950186.95	0.2624	0.1115
Mercury	82775-01-18 01:27 G	31954024.43	31954024.56	31954024.70	0.2708	0.0197
Mercury	82777-07-19 03:36 G	31954937.53	31954937.65	31954937.77	0.2624	0.0218
Venus	82779-11-18 21:51 G	31955790.25	31955790.41	31955790.57	0.2685	0.0121
Mercury	82788-01-21 02:53 G	31958775.55	31958775.62	31958775.70	0.2708	0.2199
Mercury	82790-07-21 23:17 G	31959688.37	31959688.47	31959688.56	0.2624	0.1573
Mercury	82797-07-14 18:00 G	31962238.18	31962238.25	31962238.31	0.2625	0.2157
Mercury	82808-01-16 05:32 G	31966075.62	31966075.73	31966075.85	0.2708	0.1527
Mercury	82810-07-17 13:12 G	31966988.94	31966989.05	31966989.16	0.2625	0.0859
Mercury	82821-01-18 07:27 G	31970826.67	31970826.81	31970826.94	0.2708	0.0563
Mercury	82823-07-20 08:39 G	31971739.75	31971739.86	31971739.98	0.2624	0.0488

Mercury	82834-01-21 08:53 G	31975577.83	31975577.87	31975577.91	0.2708	0.2574
Mercury	82836-07-22 04:20 G	31976490.60	31976490.68	31976490.77	0.2624	0.1845
Mercury	82843-07-15 23:03 G	31979040.38	31979040.46	31979040.54	0.2625	0.1901
Mercury	82854-01-16 11:32 G	31982877.86	31982877.98	31982878.11	0.2708	0.1126
Mercury	82856-07-17 18:15 G	31983791.15	31983791.26	31983791.38	0.2624	0.0599
Mercury	82867-01-19 13:12 G	31987628.92	31987629.05	31987629.18	0.2708	0.0950
Mercury	82869-07-20 13:41 G	31988541.96	31988542.07	31988542.19	0.2624	0.0747
Mercury	82882-07-23 09:22 G	31993292.82	31993292.89	31993292.96	0.2624	0.2120
Mercury	82889-07-16 04:05 G	31995842.58	31995842.67	31995842.76	0.2625	0.1645
Mercury	82900-01-17 17:32 G	31999680.09	31999680.23	31999680.36	0.2708	0.0736
Mercury	82902-07-19 23:17 G	32000593.36	32000593.47	32000593.59	0.2625	0.0346
Mercury	82913-01-20 19:12 G	32004431.18	32004431.30	32004431.42	0.2708	0.1338
Mercury	82915-07-22 18:58 G	32005344.17	32005344.29	32005344.40	0.2624	0.1019
Venus	82917-05-19 04:05 G	32006010.60	32006010.67	32006010.74	0.2647	0.2357
Venus	82925-05-16 17:46 G	32008930.10	32008930.24	32008930.39	0.2649	0.1095
Mercury	82928-07-24 14:39 G	32010095.06	32010095.11	32010095.15	0.2624	0.2393
Mercury	82933-01-15 21:22 G	32011731.33	32011731.39	32011731.44	0.2708	0.2476
Mercury	82935-07-18 09:08 G	32012644.78	32012644.88	32012644.98	0.2625	0.1384
Mercury	82946-01-18 23:17 G	32016482.34	32016482.47	32016482.61	0.2708	0.0350
Mercury	82948-07-20 04:34 G	32017395.57	32017395.69	32017395.81	0.2624	0.0107
Mercury	82959-01-22 00:58 G	32021233.44	32021233.54	32021233.65	0.2708	0.1718
Mercury	82961-07-23 00:00 G	32022146.39	32022146.50	32022146.60	0.2624	0.1285
Mercury	82968-07-15 18:58 G	32024696.25	32024696.29	32024696.33	0.2625	0.2421
Mercury	82979-01-17 03:22 G	32028533.55	32028533.64	32028533.73	0.2708	0.2074
Mercury	82981-07-18 14:10 G	32029446.98	32029447.09	32029447.20	0.2625	0.1130
Mercury	82992-01-20 05:17 G	32033284.58	32033284.72	32033284.86	0.2708	0.0054
Mercury	82994-07-21 09:36 G	32034197.78	32034197.90	32034198.02	0.2624	0.0216

84TH MILLENNIUM CE

This is a list of transits visible from Earth in the 84th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	83005-01-23 06:58	G	32038035.70	32038035.79	32038035.87	0.2709	0.2098	
Mercury	83007-07-25 05:03	G	32038948.61	32038948.71	32038948.81	0.2624	0.1558	
Mercury	83014-07-18 00:00	G	32041498.43	32041498.50	32041498.56	0.2625	0.2171	
Venus	83022-11-21 00:15	G	32044546.36	32044546.51	32044546.67	0.2683	0.0280	
Mercury	83025-01-18 09:22	G	32045335.78	32045335.89	32045336.00	0.2708	0.1662	
Mercury	83027-07-20 19:12	G	32046249.19	32046249.30	32046249.41	0.2624	0.0867	
Mercury	83038-01-21 11:17	G	32050086.83	32050086.97	32050087.11	0.2708	0.0448	
Mercury	83040-07-22 14:39	G	32050999.99	32051000.11	32051000.22	0.2624	0.0468	
Mercury	83051-01-24 12:44	G	32054837.98	32054838.03	32054838.08	0.2709	0.2478	
Mercury	83053-07-25 10:05	G	32055750.84	32055750.92	32055751.01	0.2624	0.1829	
Mercury	83060-07-18 05:03	G	32058300.63	32058300.71	32058300.79	0.2625	0.1915	
Mercury	83071-01-19 15:22	G	32062138.01	32062138.14	32062138.26	0.2708	0.1268	
Mercury	83073-07-21 00:15	G	32063051.39	32063051.51	32063051.62	0.2624	0.0613	
Mercury	83084-01-22 17:17	G	32066889.09	32066889.22	32066889.35	0.2708	0.0847	
Mercury	83086-07-23 19:41	G	32067802.20	32067802.32	32067802.43	0.2624	0.0733	
Mercury	83099-07-26 15:22	G	32072553.06	32072553.14	32072553.21	0.2624	0.2105	
Mercury	83106-07-20 10:05	G	32075102.83	32075102.92	32075103.01	0.2625	0.1661	
Mercury	83117-01-20 21:08	G	32078940.25	32078940.38	32078940.52	0.2708	0.0864	
Mercury	83119-07-23 05:17	G	32079853.60	32079853.72	32079853.84	0.2624	0.0349	
Mercury	83130-01-23 23:03	G	32083691.34	32083691.46	32083691.58	0.2708	0.1227	
Mercury	83132-07-25 00:44	G	32084604.42	32084604.53	32084604.64	0.2624	0.0995	
Mercury	83145-07-27 20:24	G	32089355.30	32089355.35	32089355.40	0.2624	0.2377	

Mercury	83150-01-19 00:58 G	32090991.51	32090991.54	32090991.57	0.2708	0.2628
Mercury	83152-07-20 15:08 G	32091905.03	32091905.13	32091905.23	0.2625	0.1406
Venus	83160-05-21 04:20 G	32094766.62	32094766.68	32094766.74	0.2649	0.2450
Mercury	83163-01-22 03:08 G	32095742.49	32095742.63	32095742.77	0.2708	0.0466
Mercury	83165-07-23 10:20 G	32096655.81	32096655.93	32096656.05	0.2624	0.0097
Venus	83168-05-18 18:00 G	32097686.10	32097686.25	32097686.40	0.2650	0.0998
Mercury	83176-01-25 04:48 G	32100493.59	32100493.70	32100493.81	0.2708	0.1617
Mercury	83178-07-26 05:46 G	32101406.64	32101406.74	32101406.85	0.2624	0.1268
Mercury	83185-07-19 00:58 G	32103956.50	32103956.54	32103956.58	0.2625	0.2437
Mercury	83196-01-20 06:58 G	32107793.71	32107793.79	32107793.87	0.2708	0.2216
Mercury	83198-07-21 20:10 G	32108707.23	32108707.34	32108707.44	0.2625	0.1146
Mercury	83209-01-22 09:08 G	32112544.74	32112544.88	32112545.02	0.2708	0.0068
Mercury	83211-07-24 15:22 G	32113458.02	32113458.14	32113458.26	0.2624	0.0180
Mercury	83222-01-25 10:48 G	32117295.86	32117295.95	32117296.04	0.2708	0.1999
Mercury	83224-07-26 10:48 G	32118208.86	32118208.95	32118209.05	0.2624	0.1536
Mercury	83231-07-20 06:00 G	32120758.69	32120758.75	32120758.81	0.2625	0.2182
Mercury	83242-01-20 12:58 G	32124595.93	32124596.04	32124596.14	0.2708	0.1816
Mercury	83244-07-22 00:58 G	32125509.43	32125509.54	32125509.66	0.2625	0.0892
Mercury	83255-01-23 15:08 G	32129346.99	32129347.13	32129347.26	0.2708	0.0339
Mercury	83257-07-24 20:24 G	32130260.23	32130260.35	32130260.47	0.2625	0.0446
Venus	83265-11-22 02:53 G	32133302.46	32133302.62	32133302.77	0.2683	0.0446
Mercury	83268-01-26 16:34 G	32134098.13	32134098.19	32134098.26	0.2708	0.2386
Mercury	83270-07-27 16:05 G	32135011.08	32135011.17	32135011.25	0.2624	0.1817
Mercury	83277-07-20 11:03 G	32137560.88	32137560.96	32137561.04	0.2625	0.1930
Mercury	83288-01-21 18:58 G	32141398.17	32141398.29	32141398.41	0.2708	0.1404
Mercury	83290-07-23 06:00 G	32142311.64	32142311.75	32142311.87	0.2624	0.0632
Mercury	83301-01-24 20:53 G	32146149.24	32146149.37	32146149.50	0.2708	0.0720
Mercury	83303-07-27 01:27 G	32147062.45	32147062.56	32147062.68	0.2624	0.0716
Mercury	83316-07-28 21:08 G	32151813.30	32151813.38	32151813.45	0.2624	0.2087
Mercury	83323-07-22 15:51 G	32154363.07	32154363.16	32154363.25	0.2625	0.1679

Mercury	83334-01-23 00:58 G	32158200.41	32158200.54	32158200.67	0.2708	0.1004
Mercury	83336-07-24 11:03 G	32159113.85	32159113.96	32159114.08	0.2625	0.0377
Mercury	83347-01-26 02:53 G	32162951.49	32162951.62	32162951.74	0.2709	0.1116
Mercury	83349-07-27 06:29 G	32163864.66	32163864.77	32163864.89	0.2624	0.0990
Mercury	83362-07-30 02:10 G	32168615.54	32168615.59	32168615.64	0.2624	0.2363
Mercury	83369-07-22 20:53 G	32171165.27	32171165.37	32171165.47	0.2625	0.1422
Mercury	83380-01-24 06:58 G	32175002.65	32175002.79	32175002.92	0.2708	0.0598
Mercury	83382-07-25 16:20 G	32175916.06	32175916.18	32175916.29	0.2624	0.0136
Mercury	83393-01-26 08:39 G	32179753.75	32179753.86	32179753.98	0.2708	0.1506
Mercury	83395-07-28 11:32 G	32180666.88	32180666.98	32180667.09	0.2624	0.1254
Mercury	83402-07-22 06:58 G	32183216.75	32183216.79	32183216.83	0.2625	0.2455
Venus	83403-05-24 04:20 G	32183522.64	32183522.68	32183522.72	0.2650	0.2551
Venus	83411-05-21 18:00 G	32186442.10	32186442.25	32186442.40	0.2651	0.0930
Mercury	83413-01-22 10:34 G	32187053.87	32187053.94	32187054.00	0.2708	0.2370
Mercury	83415-07-25 01:56 G	32187967.48	32187967.58	32187967.69	0.2625	0.1165
Mercury	83426-01-25 12:44 G	32191804.89	32191805.03	32191805.17	0.2708	0.0199
Mercury	83428-07-26 21:22 G	32192718.27	32192718.39	32192718.50	0.2624	0.0192
Mercury	83439-01-28 14:39 G	32196556.01	32196556.11	32196556.21	0.2708	0.1901
Mercury	83441-07-29 16:48 G	32197469.10	32197469.20	32197469.29	0.2624	0.1528
Mercury	83448-07-22 12:00 G	32200018.93	32200019.00	32200019.06	0.2625	0.2201
Mercury	83459-01-23 16:34 G	32203856.09	32203856.19	32203856.28	0.2708	0.1959
Mercury	83461-07-25 06:58 G	32204769.68	32204769.79	32204769.90	0.2625	0.0905
Mercury	83472-01-26 18:44 G	32208607.14	32208607.28	32208607.42	0.2708	0.0209
Mercury	83474-07-28 02:24 G	32209520.48	32209520.60	32209520.71	0.2624	0.0438
Mercury	83485-01-28 20:24 G	32213358.28	32213358.35	32213358.43	0.2708	0.2283
Mercury	83487-07-30 21:51 G	32214271.32	32214271.41	32214271.49	0.2624	0.1794
Mercury	83494-07-23 16:48 G	32216821.13	32216821.20	32216821.28	0.2625	0.1949
Mercury	83505-01-24 22:20 G	32220658.32	32220658.43	32220658.55	0.2708	0.1554
Mercury	83507-07-27 12:00 G	32221571.89	32221572.00	32221572.12	0.2625	0.0643
Venus	83508-11-25 05:17 G	32222058.57	32222058.72	32222058.88	0.2681	0.0614

Venus	83516-11-22 21:51 G	32224978.37	32224978.41	32224978.45	0.2680	0.2588
Mercury	83518-01-28 00:44 G	32225409.39	32225409.53	32225409.66	0.2708	0.0605
Mercury	83520-07-29 07:27 G	32226322.69	32226322.81	32226322.92	0.2624	0.0701
Mercury	83531-01-31 02:24 G	32230160.58	32230160.60	32230160.62	0.2708	0.2674
Mercury	83533-08-01 02:53 G	32231073.55	32231073.62	32231073.69	0.2624	0.2070
Mercury	83540-07-24 21:51 G	32233623.32	32233623.41	32233623.50	0.2625	0.1692
Mercury	83551-01-26 04:20 G	32237460.56	32237460.68	32237460.81	0.2708	0.1144
Mercury	83553-07-27 17:03 G	32238374.10	32238374.21	32238374.33	0.2625	0.0382
Mercury	83564-01-29 06:29 G	32242211.64	32242211.77	32242211.90	0.2708	0.0999
Mercury	83566-07-30 12:29 G	32243124.91	32243125.02	32243125.13	0.2624	0.0969
Mercury	83579-08-02 07:56 G	32247875.78	32247875.83	32247875.88	0.2624	0.2344
Mercury	83586-07-26 02:53 G	32250425.52	32250425.62	32250425.72	0.2625	0.1435
Mercury	83597-01-26 10:20 G	32254262.80	32254262.93	32254263.07	0.2708	0.0740
Mercury	83599-07-28 22:05 G	32255176.30	32255176.42	32255176.54	0.2625	0.0121
Mercury	83610-01-29 12:29 G	32259013.90	32259014.02	32259014.14	0.2708	0.1395
Mercury	83612-07-30 17:32 G	32259927.12	32259927.23	32259927.33	0.2624	0.1240
Mercury	83619-07-24 12:58 G	32262477.00	32262477.04	32262477.08	0.2625	0.2468
Mercury	83625-08-02 12:58 G	32264678.04	32264678.04	32264678.04	0.2624	0.2624
Mercury	83630-01-24 13:56 G	32266314.03	32266314.08	32266314.13	0.2708	0.2528
Mercury	83632-07-26 07:56 G	32267227.73	32267227.83	32267227.94	0.2625	0.1176
Mercury	83643-01-27 16:20 G	32271065.04	32271065.18	32271065.32	0.2708	0.0332
Mercury	83645-07-29 03:08 G	32271978.51	32271978.63	32271978.75	0.2624	0.0157
Venus	83646-05-25 04:20 G	32272278.66	32272278.68	32272278.70	0.2651	0.2622
Venus	83654-05-22 17:46 G	32275198.09	32275198.24	32275198.40	0.2653	0.0856
Mercury	83656-01-30 18:29 G	32275816.16	32275816.27	32275816.37	0.2708	0.1789
Mercury	83658-07-31 22:34 G	32276729.34	32276729.44	32276729.54	0.2624	0.1508
Mercury	83665-07-24 18:00 G	32279279.19	32279279.25	32279279.31	0.2625	0.2219
Mercury	83676-01-25 19:56 G	32283116.25	32283116.33	32283116.42	0.2708	0.2111
Mercury	83678-07-27 12:58 G	32284029.93	32284030.04	32284030.15	0.2625	0.0917
Mercury	83689-01-27 22:20 G	32287867.29	32287867.43	32287867.57	0.2708	0.0088

Mercury	83691-07-30 08:10 G	32288780.72	32288780.84	32288780.96	0.2624	0.0418
Mercury	83702-02-01 00:15 G	32292618.43	32292618.51	32292618.59	0.2709	0.2186
Mercury	83704-08-02 03:36 G	32293531.56	32293531.65	32293531.74	0.2624	0.1782
Mercury	83711-07-26 22:48 G	32296081.38	32296081.45	32296081.53	0.2625	0.1966
Mercury	83722-01-27 01:56 G	32299918.47	32299918.58	32299918.69	0.2708	0.1698
Mercury	83724-07-28 18:00 G	32300832.14	32300832.25	32300832.36	0.2625	0.0656
Mercury	83735-01-30 04:20 G	32304669.54	32304669.68	32304669.82	0.2708	0.0483
Mercury	83737-07-31 13:12 G	32305582.94	32305583.05	32305583.17	0.2624	0.0683
Mercury	83748-02-02 06:15 G	32309420.72	32309420.76	32309420.80	0.2708	0.2573
Mercury	83750-08-03 08:39 G	32310333.79	32310333.86	32310333.93	0.2624	0.2053
Venus	83751-11-27 07:41 G	32310814.67	32310814.82	32310814.97	0.2680	0.0762
Mercury	83757-07-27 03:51 G	32312883.58	32312883.66	32312883.75	0.2625	0.1709
Venus	83759-11-25 00:29 G	32313734.45	32313734.52	32313734.58	0.2679	0.2424
Mercury	83768-01-28 07:56 G	32316720.71	32316720.83	32316720.96	0.2708	0.1286
Mercury	83770-07-29 23:03 G	32317634.34	32317634.46	32317634.58	0.2625	0.0399
Mercury	83781-01-30 10:20 G	32321471.80	32321471.93	32321472.06	0.2708	0.0883
Mercury	83783-08-01 18:15 G	32322385.15	32322385.26	32322385.37	0.2624	0.0949
Mercury	83796-08-03 13:41 G	32327136.02	32327136.07	32327136.13	0.2624	0.2331
Mercury	83803-07-29 08:53 G	32329685.78	32329685.87	32329685.97	0.2625	0.1446
Mercury	83814-01-29 14:10 G	32333522.95	32333523.09	32333523.22	0.2708	0.0874
Mercury	83816-07-31 04:05 G	32334436.55	32334436.67	32334436.79	0.2625	0.0134
Mercury	83827-02-01 16:05 G	32338274.05	32338274.17	32338274.30	0.2708	0.1288
Mercury	83829-08-02 23:17 G	32339187.37	32339187.47	32339187.58	0.2624	0.1220
Mercury	83836-07-26 18:58 G	32341737.26	32341737.29	32341737.33	0.2625	0.2481
Mercury	83842-08-05 18:44 G	32343938.27	32343938.28	32343938.30	0.2624	0.2601
Mercury	83847-01-27 17:17 G	32345574.21	32345574.22	32345574.24	0.2708	0.2694
Mercury	83849-07-29 13:56 G	32346487.98	32346488.08	32346488.19	0.2625	0.1190
Mercury	83860-01-30 19:56 G	32350325.19	32350325.33	32350325.47	0.2708	0.0469
Mercury	83862-08-01 09:08 G	32351238.76	32351238.88	32351239.00	0.2625	0.0145
Mercury	83873-02-01 22:05 G	32355076.31	32355076.42	32355076.53	0.2708	0.1679

Mercury	83875-08-04 04:20 G	32355989.59	32355989.68	32355989.78	0.2624	0.1497
Mercury	83882-07-28 00:00 G	32358539.44	32358539.50	32358539.56	0.2625	0.2229
Mercury	83893-01-27 23:32 G	32362376.40	32362376.48	32362376.55	0.2708	0.2267
Mercury	83895-07-30 18:58 G	32363290.18	32363290.29	32363290.40	0.2625	0.0929
Venus	83897-05-24 17:46 G	32363954.09	32363954.24	32363954.40	0.2654	0.0792
Mercury	83906-02-01 01:56 G	32367127.44	32367127.58	32367127.72	0.2708	0.0075
Mercury	83908-08-02 14:10 G	32368040.97	32368041.09	32368041.21	0.2624	0.0405
Mercury	83919-02-04 04:05 G	32371878.58	32371878.67	32371878.75	0.2708	0.2074
Mercury	83921-08-05 09:36 G	32372791.81	32372791.90	32372791.98	0.2624	0.1770
Mercury	83928-07-29 05:03 G	32375341.63	32375341.71	32375341.78	0.2625	0.1977
Mercury	83939-01-30 05:32 G	32379178.63	32379178.73	32379178.83	0.2708	0.1846
Mercury	83941-08-01 00:00 G	32380092.38	32380092.50	32380092.61	0.2625	0.0673
Mercury	83952-02-02 07:56 G	32383929.69	32383929.83	32383929.97	0.2708	0.0356
Mercury	83954-08-03 19:12 G	32384843.18	32384843.30	32384843.41	0.2625	0.0670
Mercury	83965-02-04 09:51 G	32388680.86	32388680.91	32388680.97	0.2708	0.2475
Mercury	83967-08-06 14:39 G	32389594.03	32389594.11	32389594.18	0.2624	0.2043
Mercury	83974-07-30 09:51 G	32392143.83	32392143.91	32392144.00	0.2625	0.1718
Mercury	83985-01-30 11:32 G	32395980.86	32395980.98	32395981.10	0.2708	0.1429
Mercury	83987-08-02 05:03 G	32396894.59	32396894.71	32396894.82	0.2625	0.0412
Venus	83994-11-29 10:34 G	32399570.80	32399570.94	32399571.09	0.2679	0.0962
Mercury	83998-02-02 13:56 G	32400731.95	32400732.08	32400732.22	0.2708	0.0765
Mercury	84000-08-04 00:15 G	32401645.40	32401645.51	32401645.62	0.2624	0.0938

85TH MILLENNIUM CE

This is a list of transits visible from Earth in the 85th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	84002-11-27 03:08	G	32402490.55	32402490.63	32402490.71	0.2677	0.2239	
Mercury	84013-08-06 19:41	G	32406396.26	32406396.32	32406396.37	0.2624	0.2315	
Mercury	84020-07-30 14:53	G	32408946.02	32408946.12	32408946.22	0.2625	0.1466	
Mercury	84031-01-31 17:32	G	32412783.10	32412783.23	32412783.36	0.2708	0.1014	
Mercury	84033-08-02 10:05	G	32413696.80	32413696.92	32413697.03	0.2625	0.0170	
Mercury	84044-02-03 19:56	G	32417534.20	32417534.33	32417534.45	0.2708	0.1165	
Mercury	84046-08-05 05:17	G	32418447.61	32418447.72	32418447.82	0.2624	0.1209	
Mercury	84053-07-29 00:58	G	32420997.51	32420997.54	32420997.57	0.2625	0.2498	
Mercury	84059-08-08 00:44	G	32423198.51	32423198.53	32423198.54	0.2624	0.2592	
Mercury	84066-07-31 19:56	G	32425748.22	32425748.33	32425748.43	0.2625	0.1205	
Mercury	84077-01-31 23:32	G	32429585.34	32429585.48	32429585.62	0.2708	0.0599	
Mercury	84079-08-03 15:08	G	32430499.01	32430499.13	32430499.24	0.2625	0.0152	
Mercury	84090-02-04 01:56	G	32434336.46	32434336.58	32434336.69	0.2708	0.1571	
Mercury	84092-08-05 10:20	G	32435249.83	32435249.93	32435250.03	0.2624	0.1478	
Mercury	84099-07-30 06:00	G	32437799.69	32437799.75	32437799.81	0.2625	0.2241	
Mercury	84110-01-31 02:53	G	32441636.56	32441636.62	32441636.68	0.2708	0.2426	
Mercury	84112-08-02 00:58	G	32442550.43	32442550.54	32442550.65	0.2625	0.0946	
Mercury	84123-02-03 05:32	G	32446387.59	32446387.73	32446387.87	0.2708	0.0189	
Mercury	84125-08-04 20:10	G	32447301.22	32447301.34	32447301.45	0.2625	0.0401	
Mercury	84136-02-06 07:41	G	32451138.73	32451138.82	32451138.92	0.2708	0.1977	
Mercury	84138-08-07 15:22	G	32452052.05	32452052.14	32452052.23	0.2624	0.1750	
Venus	84140-05-26 17:32	G	32452710.07	32452710.23	32452710.39	0.2655	0.0734	
Mercury	84145-07-31 11:03	G	32454601.88	32454601.96	32454602.03	0.2625	0.1988	
Mercury	84156-02-01 08:53	G	32458438.78	32458438.87	32458438.97	0.2708	0.2007	
Mercury	84158-08-03 06:00	G	32459352.63	32459352.75	32459352.86	0.2625	0.0680	
Mercury	84169-02-03 11:32	G	32463189.84	32463189.98	32463190.12	0.2708	0.0232	
Mercury	84171-08-06 01:12	G	32464103.43	32464103.55	32464103.66	0.2625	0.0662	

Mercury	84182-02-06 13:41 G	32467941.01	32467941.07	32467941.14	0.2708	0.2374
Mercury	84184-08-07 20:24 G	32468854.27	32468854.35	32468854.42	0.2624	0.2025
Mercury	84191-08-01 15:51 G	32471404.08	32471404.16	32471404.25	0.2625	0.1736
Mercury	84202-02-02 14:53 G	32475241.01	32475241.12	32475241.24	0.2708	0.1585
Mercury	84204-08-04 11:03 G	32476154.84	32476154.96	32476155.07	0.2625	0.0424
Mercury	84215-02-05 17:32 G	32479992.09	32479992.23	32479992.37	0.2708	0.0634
Mercury	84217-08-07 06:15 G	32480905.64	32480905.76	32480905.87	0.2625	0.0934
Mercury	84230-08-10 01:27 G	32485656.51	32485656.56	32485656.62	0.2624	0.2303
Mercury	84237-08-02 20:53 G	32488206.28	32488206.37	32488206.47	0.2625	0.1476
Venus	84237-12-01 13:12 G	32488326.91	32488327.05	32488327.19	0.2678	0.1106
Venus	84245-11-29 06:00 G	32491246.65	32491246.75	32491246.85	0.2676	0.2050
Mercury	84248-02-03 21:08 G	32492043.25	32492043.38	32492043.51	0.2708	0.1156
Mercury	84250-08-05 16:05 G	32492957.05	32492957.17	32492957.28	0.2625	0.0173
Mercury	84261-02-05 23:32 G	32496794.35	32496794.48	32496794.61	0.2708	0.1047
Mercury	84263-08-08 11:03 G	32497707.86	32497707.96	32497708.07	0.2624	0.1199
Mercury	84270-08-01 06:58 G	32500257.76	32500257.79	32500257.82	0.2625	0.2510
Mercury	84276-08-10 06:29 G	32502458.75	32502458.77	32502458.79	0.2624	0.2580
Mercury	84283-08-04 01:56 G	32505008.48	32505008.58	32505008.69	0.2625	0.1218
Mercury	84294-02-04 03:08 G	32508845.49	32508845.63	32508845.77	0.2708	0.0735
Mercury	84296-08-05 20:53 G	32509759.26	32509759.37	32509759.49	0.2625	0.0140
Mercury	84307-02-08 05:32 G	32513596.61	32513596.73	32513596.85	0.2708	0.1460
Mercury	84309-08-09 16:05 G	32514510.08	32514510.17	32514510.27	0.2624	0.1470
Mercury	84316-08-02 12:00 G	32517059.94	32517060.00	32517060.06	0.2625	0.2259
Mercury	84327-02-03 06:15 G	32520896.72	32520896.76	32520896.80	0.2708	0.2588
Mercury	84329-08-05 06:58 G	32521810.68	32521810.79	32521810.90	0.2625	0.0954
Mercury	84340-02-06 09:08 G	32525647.74	32525647.88	32525648.02	0.2708	0.0320
Mercury	84342-08-08 01:56 G	32526561.47	32526561.58	32526561.70	0.2625	0.0382
Mercury	84353-02-08 11:32 G	32530398.88	32530398.98	32530399.08	0.2708	0.1866
Mercury	84355-08-10 21:08 G	32531312.30	32531312.38	32531312.47	0.2624	0.1741
Mercury	84362-08-03 17:03 G	32533862.14	32533862.21	32533862.28	0.2625	0.2001

Mercury	84373-02-03 12:29 G	32537698.93	32537699.02	32537699.10	0.2708	0.2160
Mercury	84375-08-06 12:00 G	32538612.88	32538613.00	32538613.11	0.2625	0.0701
Venus	84383-05-29 17:32 G	32541466.07	32541466.23	32541466.39	0.2656	0.0663
Mercury	84386-02-06 15:08 G	32542449.99	32542450.13	32542450.27	0.2708	0.0099
Mercury	84388-08-08 06:58 G	32543363.68	32543363.79	32543363.91	0.2625	0.0645
Mercury	84399-02-09 17:32 G	32547201.15	32547201.23	32547201.30	0.2708	0.2267
Mercury	84401-08-11 02:24 G	32548114.52	32548114.60	32548114.67	0.2624	0.2017
Mercury	84408-08-03 22:05 G	32550664.33	32550664.42	32550664.50	0.2625	0.1746
Mercury	84419-02-04 18:29 G	32554501.16	32554501.27	32554501.38	0.2708	0.1726
Mercury	84421-08-06 17:03 G	32555415.09	32555415.21	32555415.32	0.2625	0.0437
Mercury	84432-02-07 21:08 G	32559252.24	32559252.38	32559252.52	0.2708	0.0517
Mercury	84434-08-09 12:00 G	32560165.89	32560166.00	32560166.11	0.2625	0.0910
Mercury	84445-02-09 23:17 G	32564003.45	32564003.47	32564003.49	0.2708	0.2669
Mercury	84447-08-12 07:27 G	32564916.75	32564916.81	32564916.86	0.2624	0.2290
Mercury	84454-08-05 03:08 G	32567466.53	32567466.63	32567466.72	0.2625	0.1487
Mercury	84465-02-05 00:29 G	32571303.40	32571303.52	32571303.65	0.2708	0.1309
Mercury	84467-08-07 21:51 G	32572217.30	32572217.41	32572217.53	0.2625	0.0189
Mercury	84478-02-08 03:08 G	32576054.50	32576054.63	32576054.76	0.2708	0.0931
Mercury	84480-08-09 17:03 G	32576968.11	32576968.21	32576968.32	0.2625	0.1186
Venus	84480-12-02 16:20 G	32577083.04	32577083.18	32577083.31	0.2677	0.1326
Mercury	84487-08-03 13:12 G	32579518.02	32579518.05	32579518.08	0.2625	0.2522
Venus	84488-11-30 08:53 G	32580002.76	32580002.87	32580002.98	0.2675	0.1859
Mercury	84493-08-12 12:29 G	32581719.00	32581719.02	32581719.04	0.2624	0.2566
Mercury	84500-08-06 07:56 G	32584268.73	32584268.83	32584268.94	0.2625	0.1226
Mercury	84511-02-07 06:44 G	32588105.64	32588105.78	32588105.91	0.2708	0.0884
Mercury	84513-08-09 02:53 G	32589019.51	32589019.62	32589019.74	0.2625	0.0124
Mercury	84524-02-10 09:08 G	32592856.76	32592856.88	32592857.00	0.2708	0.1337
Mercury	84526-08-11 22:05 G	32593770.32	32593770.42	32593770.52	0.2625	0.1458
Mercury	84533-08-04 18:15 G	32596320.20	32596320.26	32596320.31	0.2625	0.2267
Mercury	84546-08-07 12:58 G	32601070.93	32601071.04	32601071.15	0.2625	0.0968

Mercury	84557-02-07 12:44 G	32604907.89	32604908.03	32604908.17	0.2708	0.0465
Mercury	84559-08-10 07:56 G	32605821.71	32605821.83	32605821.95	0.2625	0.0369
Mercury	84570-02-10 15:08 G	32609659.02	32609659.13	32609659.23	0.2708	0.1746
Mercury	84572-08-12 03:08 G	32610572.55	32610572.63	32610572.72	0.2624	0.1735
Mercury	84579-08-05 23:03 G	32613122.39	32613122.46	32613122.54	0.2625	0.2015
Mercury	84590-02-05 15:51 G	32616959.09	32616959.16	32616959.23	0.2708	0.2310
Mercury	84592-08-07 18:00 G	32617873.13	32617873.25	32617873.36	0.2625	0.0706
Mercury	84603-02-09 18:44 G	32621710.14	32621710.28	32621710.42	0.2708	0.0034
Mercury	84605-08-11 12:58 G	32622623.93	32622624.04	32622624.16	0.2625	0.0635
Mercury	84616-02-12 21:08 G	32626461.29	32626461.38	32626461.46	0.2708	0.2158
Mercury	84618-08-14 08:10 G	32627374.77	32627374.84	32627374.92	0.2624	0.2004
Mercury	84625-08-07 04:05 G	32629924.58	32629924.67	32629924.75	0.2625	0.1756
Venus	84626-05-31 17:03 G	32630222.06	32630222.21	32630222.37	0.2657	0.0630
Mercury	84636-02-07 21:51 G	32633761.31	32633761.41	32633761.51	0.2708	0.1887
Mercury	84638-08-09 22:48 G	32634675.34	32634675.45	32634675.57	0.2625	0.0458
Mercury	84649-02-10 00:44 G	32638512.39	32638512.53	32638512.67	0.2708	0.0387
Mercury	84651-08-12 18:00 G	32639426.14	32639426.25	32639426.36	0.2625	0.0903
Mercury	84662-02-13 03:08 G	32643263.59	32643263.63	32643263.67	0.2708	0.2572
Mercury	84664-08-14 13:12 G	32644177.00	32644177.05	32644177.11	0.2624	0.2281
Mercury	84671-08-08 09:08 G	32646726.78	32646726.88	32646726.97	0.2625	0.1502
Mercury	84682-02-08 04:05 G	32650563.55	32650563.67	32650563.79	0.2708	0.1455
Mercury	84684-08-10 03:51 G	32651477.55	32651477.66	32651477.78	0.2625	0.0200
Mercury	84695-02-11 06:44 G	32655314.64	32655314.78	32655314.91	0.2708	0.0803
Mercury	84697-08-12 23:03 G	32656228.35	32656228.46	32656228.57	0.2625	0.1172
Mercury	84704-08-06 19:12 G	32658778.28	32658778.30	32658778.33	0.2625	0.2532
Mercury	84710-08-16 18:15 G	32660979.24	32660979.26	32660979.29	0.2624	0.2554
Mercury	84717-08-09 13:56 G	32663528.98	32663529.08	32663529.19	0.2625	0.1241
Venus	84723-12-06 18:58 G	32665839.16	32665839.29	32665839.41	0.2676	0.1494
Mercury	84728-02-10 10:05 G	32667365.79	32667365.92	32667366.05	0.2708	0.1028
Mercury	84730-08-12 08:53 G	32668279.76	32668279.87	32668279.99	0.2625	0.0112

Venus	84731-12-04 11:32 G	32668758.86	32668758.98	32668759.11	0.2674	0.1663
Mercury	84741-02-12 12:44 G	32672116.90	32672117.03	32672117.16	0.2708	0.1220
Mercury	84743-08-15 04:05 G	32673030.57	32673030.67	32673030.77	0.2625	0.1447
Mercury	84750-08-08 00:15 G	32675580.45	32675580.51	32675580.56	0.2625	0.2280
Mercury	84763-08-10 18:58 G	32680331.18	32680331.29	32680331.40	0.2625	0.0978
Mercury	84774-02-10 16:05 G	32684168.03	32684168.17	32684168.31	0.2708	0.0597
Mercury	84776-08-12 13:56 G	32685081.97	32685082.08	32685082.20	0.2625	0.0367
Mercury	84787-02-13 18:44 G	32688919.17	32688919.28	32688919.39	0.2708	0.1635
Mercury	84789-08-15 09:08 G	32689832.79	32689832.88	32689832.97	0.2625	0.1716
Mercury	84796-08-08 05:17 G	32692382.64	32692382.72	32692382.79	0.2625	0.2025
Mercury	84807-02-08 19:12 G	32696219.24	32696219.30	32696219.35	0.2707	0.2484
Mercury	84809-08-11 00:00 G	32697133.39	32697133.50	32697133.61	0.2625	0.0715
Mercury	84820-02-11 22:05 G	32700970.28	32700970.42	32700970.56	0.2708	0.0182
Mercury	84822-08-13 18:58 G	32701884.18	32701884.29	32701884.41	0.2625	0.0624
Mercury	84833-02-14 00:44 G	32705721.44	32705721.53	32705721.62	0.2708	0.2053
Mercury	84835-08-16 14:10 G	32706635.01	32706635.09	32706635.16	0.2625	0.1995
Mercury	84842-08-09 10:05 G	32709184.84	32709184.92	32709185.01	0.2625	0.1767
Mercury	84853-02-09 01:12 G	32713021.46	32713021.55	32713021.64	0.2708	0.2046
Mercury	84855-08-12 05:03 G	32713935.59	32713935.71	32713935.82	0.2625	0.0451
Mercury	84866-02-12 04:05 G	32717772.53	32717772.67	32717772.82	0.2708	0.0269
Mercury	84868-08-14 00:00 G	32718686.39	32718686.50	32718686.61	0.2625	0.0894
Venus	84869-06-01 17:03 G	32718978.05	32718978.21	32718978.37	0.2659	0.0561
Mercury	84879-02-15 06:44 G	32722523.72	32722523.78	32722523.84	0.2708	0.2459
Mercury	84881-08-16 19:12 G	32723437.24	32723437.30	32723437.36	0.2624	0.2267
Mercury	84888-08-09 15:08 G	32725987.03	32725987.13	32725987.22	0.2625	0.1509
Mercury	84899-02-10 07:27 G	32729823.69	32729823.81	32729823.92	0.2708	0.1611
Mercury	84901-08-13 10:05 G	32730737.80	32730737.92	32730738.03	0.2625	0.0203
Mercury	84912-02-14 10:20 G	32734574.79	32734574.93	32734575.06	0.2708	0.0678
Mercury	84914-08-16 05:03 G	32735488.60	32735488.71	32735488.81	0.2625	0.1165
Mercury	84921-08-09 01:12 G	32738038.53	32738038.55	32738038.58	0.2626	0.2550

Mercury	84927-08-19 00:15 G	32740239.48	32740239.51	32740239.53	0.2624	0.2547
Mercury	84934-08-11 20:10 G	32742789.23	32742789.34	32742789.44	0.2625	0.1255
Mercury	84945-02-11 13:27 G	32746625.93	32746626.06	32746626.19	0.2708	0.1171
Mercury	84947-08-14 14:53 G	32747540.01	32747540.12	32747540.24	0.2625	0.0126
Mercury	84958-02-14 16:20 G	32751377.05	32751377.18	32751377.31	0.2708	0.1101
Mercury	84960-08-16 10:05 G	32752290.82	32752290.92	32752291.02	0.2625	0.1434
Venus	84966-12-07 21:51 G	32754595.29	32754595.41	32754595.53	0.2675	0.1689
Mercury	84967-08-10 06:15 G	32754840.71	32754840.76	32754840.82	0.2625	0.2293
Venus	84974-12-05 14:39 G	32757514.98	32757515.11	32757515.24	0.2673	0.1464
Mercury	84980-08-12 00:58 G	32759591.44	32759591.54	32759591.65	0.2625	0.0994
Mercury	84991-02-12 19:27 G	32763428.18	32763428.31	32763428.45	0.2708	0.0749
Mercury	84993-08-14 19:56 G	32764342.21	32764342.33	32764342.45	0.2625	0.0340

86TH MILLENNIUM CE

This is a list of transits visible from Earth in the 86th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	85004-02-16 22:20 G	32768179.32	32768179.43	32768179.55	0.2708	0.1523		
Mercury	85006-08-18 15:08 G	32769093.04	32769093.13	32769093.21	0.2625	0.1709		
Mercury	85013-08-11 11:17 G	32771642.90	32771642.97	32771643.04	0.2626	0.2034		
Mercury	85024-02-11 22:20 G	32775479.41	32775479.43	32775479.46	0.2707	0.2653		
Mercury	85026-08-14 06:00 G	32776393.64	32776393.75	32776393.87	0.2625	0.0728		
Mercury	85037-02-14 01:41 G	32780230.43	32780230.57	32780230.71	0.2708	0.0307		
Mercury	85039-08-17 00:58 G	32781144.42	32781144.54	32781144.65	0.2625	0.0611		

Mercury	85050-02-17 04:20 G	32784981.58	32784981.68	32784981.78	0.2708	0.1936
Mercury	85052-08-18 19:56 G	32785895.26	32785895.33	32785895.41	0.2625	0.1981
Mercury	85059-08-12 16:20 G	32788445.09	32788445.18	32788445.26	0.2625	0.1777
Mercury	85070-02-12 04:34 G	32792281.61	32792281.69	32792281.77	0.2707	0.2210
Mercury	85072-08-14 11:03 G	32793195.84	32793195.96	32793196.08	0.2625	0.0463
Mercury	85083-02-15 07:41 G	32797032.68	32797032.82	32797032.96	0.2708	0.0116
Mercury	85085-08-17 06:00 G	32797946.64	32797946.75	32797946.86	0.2625	0.0882
Mercury	85096-02-18 10:20 G	32801783.86	32801783.93	32801784.00	0.2708	0.2354
Mercury	85098-08-20 01:12 G	32802697.49	32802697.55	32802697.60	0.2625	0.2260
Mercury	85105-08-13 21:08 G	32805247.29	32805247.38	32805247.48	0.2625	0.1522
Venus	85112-06-04 16:34 G	32807734.03	32807734.19	32807734.35	0.2660	0.0540
Mercury	85116-02-14 10:48 G	32809083.84	32809083.95	32809084.05	0.2707	0.1769
Mercury	85118-08-16 16:05 G	32809998.05	32809998.17	32809998.28	0.2625	0.0209
Mercury	85129-02-16 13:41 G	32813834.93	32813835.07	32813835.21	0.2708	0.0546
Mercury	85131-08-19 11:03 G	32814748.85	32814748.96	32814749.06	0.2625	0.1155
Mercury	85138-08-12 07:27 G	32817298.79	32817298.81	32817298.83	0.2626	0.2556
Mercury	85144-08-21 06:15 G	32819499.73	32819499.76	32819499.78	0.2625	0.2535
Mercury	85151-08-15 02:10 G	32822049.49	32822049.59	32822049.69	0.2625	0.1260
Mercury	85162-02-14 16:48 G	32825886.08	32825886.20	32825886.32	0.2708	0.1331
Mercury	85164-08-16 20:53 G	32826800.26	32826800.37	32826800.49	0.2625	0.0099
Mercury	85175-02-17 19:41 G	32830637.19	32830637.32	32830637.46	0.2708	0.0970
Mercury	85177-08-19 16:05 G	32831551.07	32831551.17	32831551.27	0.2625	0.1426
Mercury	85184-08-12 12:29 G	32834100.96	32834101.02	32834101.07	0.2626	0.2303
Mercury	85197-08-15 07:12 G	32838851.69	32838851.80	32838851.90	0.2625	0.1001
Mercury	85208-02-15 23:03 G	32842688.32	32842688.46	32842688.59	0.2708	0.0890
Venus	85209-12-10 00:44 G	32843351.42	32843351.53	32843351.64	0.2673	0.1883
Mercury	85210-08-18 01:56 G	32843602.47	32843602.58	32843602.70	0.2625	0.0339
Venus	85217-12-07 17:17 G	32846271.09	32846271.22	32846271.36	0.2672	0.1277
Mercury	85221-02-18 01:41 G	32847439.45	32847439.57	32847439.70	0.2708	0.1397
Mercury	85223-08-20 21:08 G	32848353.29	32848353.38	32848353.47	0.2625	0.1700

Mercury	85230-08-13 17:17 G	32850903.15	32850903.22	32850903.29	0.2626	0.2049
Mercury	85243-08-16 12:00 G	32855653.89	32855654.00	32855654.12	0.2625	0.0742
Mercury	85254-02-16 05:03 G	32859490.57	32859490.71	32859490.85	0.2708	0.0458
Mercury	85256-08-18 06:58 G	32860404.68	32860404.79	32860404.90	0.2625	0.0602
Mercury	85267-02-19 07:56 G	32864241.72	32864241.83	32864241.93	0.2708	0.1818
Mercury	85269-08-21 02:10 G	32865155.51	32865155.59	32865155.66	0.2625	0.1976
Mercury	85276-08-13 22:20 G	32867705.35	32867705.43	32867705.51	0.2626	0.1792
Mercury	85287-02-14 07:56 G	32871541.76	32871541.83	32871541.90	0.2707	0.2372
Mercury	85289-08-16 17:03 G	32872456.09	32872456.21	32872456.32	0.2625	0.0477
Mercury	85300-02-17 11:03 G	32876292.82	32876292.96	32876293.10	0.2708	0.0039
Mercury	85302-08-20 12:00 G	32877206.89	32877207.00	32877207.11	0.2625	0.0872
Mercury	85313-02-20 13:56 G	32881044.00	32881044.08	32881044.15	0.2708	0.2237
Mercury	85315-08-23 06:58 G	32881957.74	32881957.79	32881957.85	0.2625	0.2249
Mercury	85322-08-16 03:22 G	32884507.54	32884507.64	32884507.73	0.2625	0.1534
Mercury	85333-02-15 13:56 G	32888343.98	32888344.08	32888344.18	0.2707	0.1929
Mercury	85335-08-18 22:05 G	32889258.30	32889258.42	32889258.53	0.2625	0.0219
Mercury	85346-02-18 17:03 G	32893095.07	32893095.21	32893095.35	0.2708	0.0411
Mercury	85348-08-20 17:03 G	32894009.10	32894009.21	32894009.31	0.2625	0.1141
Venus	85355-06-06 16:05 G	32896490.01	32896490.17	32896490.33	0.2661	0.0505
Mercury	85355-08-14 13:41 G	32896559.05	32896559.07	32896559.09	0.2626	0.2570
Mercury	85359-02-21 19:56 G	32897846.31	32897846.33	32897846.35	0.2708	0.2661
Mercury	85361-08-23 12:00 G	32898759.97	32898760.00	32898760.03	0.2625	0.2526
Mercury	85368-08-16 08:10 G	32901309.74	32901309.84	32901309.94	0.2626	0.1270
Mercury	85379-02-16 20:10 G	32905146.22	32905146.34	32905146.46	0.2707	0.1492
Mercury	85381-08-19 03:08 G	32906060.51	32906060.63	32906060.74	0.2625	0.0085
Mercury	85392-02-19 23:17 G	32909897.33	32909897.47	32909897.60	0.2708	0.0843
Mercury	85394-08-21 22:05 G	32910811.32	32910811.42	32910811.52	0.2625	0.1417
Mercury	85401-08-15 18:29 G	32913361.22	32913361.27	32913361.32	0.2626	0.2313
Mercury	85414-08-18 13:12 G	32918111.94	32918112.05	32918112.16	0.2625	0.1011
Mercury	85425-02-18 02:10 G	32921948.46	32921948.59	32921948.72	0.2707	0.1053

Mercury	85427-08-21 07:56 G	32922862.72	32922862.83	32922862.95	0.2625	0.0343
Mercury	85438-02-21 05:17 G	32926699.59	32926699.72	32926699.84	0.2708	0.1262
Mercury	85440-08-23 03:08 G	32927613.54	32927613.63	32927613.72	0.2625	0.1693
Mercury	85447-08-16 23:32 G	32930163.41	32930163.48	32930163.55	0.2626	0.2061
Venus	85452-12-12 03:22 G	32932107.55	32932107.64	32932107.74	0.2672	0.2070
Mercury	85460-08-18 18:15 G	32934914.14	32934914.26	32934914.37	0.2625	0.0752
Venus	85460-12-09 20:24 G	32935027.21	32935027.35	32935027.49	0.2671	0.1064
Mercury	85471-02-19 08:24 G	32938750.71	32938750.85	32938750.99	0.2708	0.0612
Mercury	85473-08-21 12:58 G	32939664.93	32939665.04	32939665.16	0.2625	0.0600
Mercury	85484-02-22 11:17 G	32943501.86	32943501.97	32943502.08	0.2708	0.1692
Mercury	85486-08-24 07:56 G	32944415.76	32944415.83	32944415.91	0.2625	0.1965
Mercury	85493-08-17 04:20 G	32946965.60	32946965.68	32946965.77	0.2626	0.1803
Mercury	85504-02-18 11:03 G	32950801.91	32950801.96	32950802.01	0.2707	0.2545
Mercury	85506-08-20 23:03 G	32951716.35	32951716.46	32951716.58	0.2625	0.0494
Mercury	85517-02-20 14:24 G	32955552.96	32955553.10	32955553.24	0.2708	0.0171
Mercury	85519-08-23 18:00 G	32956467.14	32956467.25	32956467.36	0.2625	0.0862
Mercury	85530-02-23 17:17 G	32960304.14	32960304.22	32960304.31	0.2708	0.2124
Mercury	85532-08-25 12:58 G	32961217.98	32961218.04	32961218.10	0.2625	0.2238
Mercury	85539-08-19 09:22 G	32963767.80	32963767.89	32963767.98	0.2626	0.1542
Mercury	85550-02-18 17:17 G	32967604.13	32967604.22	32967604.31	0.2707	0.2102
Mercury	85552-08-21 04:05 G	32968518.56	32968518.67	32968518.79	0.2625	0.0223
Mercury	85563-02-21 20:39 G	32972355.22	32972355.36	32972355.50	0.2708	0.0278
Mercury	85565-08-23 23:03 G	32973269.35	32973269.46	32973269.56	0.2625	0.1134
Mercury	85572-08-16 19:41 G	32975819.30	32975819.32	32975819.34	0.2626	0.2581
Mercury	85576-02-24 23:17 G	32977106.43	32977106.47	32977106.52	0.2708	0.2550
Mercury	85578-08-26 18:00 G	32978020.22	32978020.25	32978020.28	0.2625	0.2513
Mercury	85585-08-19 14:24 G	32980570.00	32980570.10	32980570.20	0.2626	0.1287
Mercury	85596-02-19 23:17 G	32984406.36	32984406.47	32984406.59	0.2707	0.1653
Venus	85598-06-08 15:36 G	32985245.99	32985246.15	32985246.31	0.2662	0.0478
Mercury	85598-08-22 09:08 G	32985320.76	32985320.88	32985321.00	0.2625	0.0055

Mercury	85609-02-22 02:39 G	32989157.47	32989157.61	32989157.75	0.2708	0.0703
Mercury	85611-08-25 04:05 G	32990071.57	32990071.67	32990071.76	0.2625	0.1409
Mercury	85618-08-18 00:44 G	32992621.48	32992621.53	32992621.58	0.2626	0.2328
Mercury	85631-08-20 19:12 G	32997372.20	32997372.30	32997372.41	0.2626	0.1024
Mercury	85642-02-20 05:32 G	33001208.60	33001208.73	33001208.86	0.2707	0.1202
Mercury	85644-08-22 14:10 G	33002122.97	33002123.09	33002123.20	0.2625	0.0327
Mercury	85655-02-23 08:39 G	33005959.73	33005959.86	33005959.99	0.2708	0.1142
Mercury	85657-08-25 08:53 G	33006873.78	33006873.87	33006873.96	0.2625	0.1676
Mercury	85664-08-18 05:32 G	33009423.66	33009423.73	33009423.80	0.2626	0.2068
Mercury	85677-08-21 00:15 G	33014174.40	33014174.51	33014174.62	0.2625	0.0758
Mercury	85688-02-21 11:46 G	33018010.85	33018010.99	33018011.12	0.2707	0.0763
Mercury	85690-08-23 18:58 G	33018925.18	33018925.29	33018925.41	0.2625	0.0585
Venus	85695-12-14 06:29 G	33020863.69	33020863.77	33020863.85	0.2671	0.2271
Mercury	85701-02-24 14:53 G	33022762.00	33022762.12	33022762.23	0.2708	0.1575
Mercury	85703-08-27 13:56 G	33023676.00	33023676.08	33023676.16	0.2625	0.1950
Venus	85703-12-12 23:17 G	33023783.32	33023783.47	33023783.62	0.2669	0.0870
Mercury	85710-08-20 10:34 G	33026225.86	33026225.94	33026226.02	0.2626	0.1810
Mercury	85723-08-23 05:17 G	33030976.60	33030976.72	33030976.83	0.2625	0.0491
Mercury	85734-02-22 17:46 G	33034813.10	33034813.24	33034813.38	0.2707	0.0317
Mercury	85736-08-25 00:00 G	33035727.39	33035727.50	33035727.61	0.2625	0.0854
Mercury	85747-02-25 20:53 G	33039564.27	33039564.37	33039564.46	0.2708	0.2004
Mercury	85749-08-27 18:58 G	33040478.23	33040478.29	33040478.35	0.2625	0.2229
Mercury	85756-08-20 15:36 G	33043028.05	33043028.15	33043028.24	0.2626	0.1551
Mercury	85767-02-20 20:24 G	33046864.27	33046864.35	33046864.43	0.2707	0.2271
Mercury	85769-08-23 10:05 G	33047778.81	33047778.92	33047779.04	0.2625	0.0246
Mercury	85780-02-23 23:46 G	33051615.35	33051615.49	33051615.64	0.2708	0.0140
Mercury	85782-08-26 05:03 G	33052529.60	33052529.71	33052529.81	0.2625	0.1127
Mercury	85789-08-19 01:56 G	33055079.56	33055079.58	33055079.59	0.2626	0.2593
Mercury	85793-02-26 02:53 G	33056366.56	33056366.62	33056366.68	0.2708	0.2425
Mercury	85795-08-29 00:00 G	33057280.47	33057280.50	33057280.53	0.2625	0.2509

Mercury	85802-08-22 20:24 G	33059830.25	33059830.35	33059830.45	0.2626	0.1293
Mercury	85813-02-22 02:39 G	33063666.50	33063666.61	33063666.72	0.2707	0.1811
Mercury	85815-08-25 15:08 G	33064581.01	33064581.13	33064581.25	0.2625	0.0039
Mercury	85826-02-25 06:00 G	33068417.61	33068417.75	33068417.89	0.2708	0.0568
Mercury	85828-08-27 10:05 G	33069331.82	33069331.92	33069332.02	0.2625	0.1398
Mercury	85835-08-21 06:44 G	33071881.73	33071881.78	33071881.84	0.2626	0.2337
Venus	85841-06-10 15:08 G	33074001.97	33074002.13	33074002.29	0.2664	0.0472
Mercury	85848-08-23 01:27 G	33076632.45	33076632.56	33076632.66	0.2626	0.1032
Mercury	85859-02-23 08:53 G	33080468.74	33080468.87	33080468.99	0.2707	0.1363
Mercury	85861-08-25 20:10 G	33081383.22	33081383.34	33081383.45	0.2625	0.0310
Mercury	85872-02-26 12:00 G	33085219.87	33085220.00	33085220.14	0.2708	0.1012
Mercury	85874-08-28 14:53 G	33086134.04	33086134.12	33086134.21	0.2625	0.1673
Mercury	85881-08-21 11:46 G	33088683.92	33088683.99	33088684.06	0.2626	0.2082
Mercury	85894-08-24 06:15 G	33093434.65	33093434.76	33093434.87	0.2626	0.0770
Mercury	85905-02-24 14:53 G	33097270.99	33097271.12	33097271.26	0.2707	0.0914
Mercury	85907-08-28 00:58 G	33098185.43	33098185.54	33098185.66	0.2625	0.0583
Mercury	85918-02-27 18:15 G	33102022.14	33102022.26	33102022.38	0.2708	0.1447
Mercury	85920-08-29 19:56 G	33102936.26	33102936.33	33102936.41	0.2625	0.1947
Mercury	85927-08-23 16:48 G	33105486.11	33105486.20	33105486.28	0.2626	0.1820
Venus	85938-12-17 09:22 G	33109619.83	33109619.89	33109619.95	0.2670	0.2470
Mercury	85940-08-25 11:17 G	33110236.86	33110236.97	33110237.08	0.2626	0.0507
Venus	85946-12-15 02:10 G	33112539.44	33112539.59	33112539.74	0.2668	0.0670
Mercury	85951-02-25 21:08 G	33114073.23	33114073.38	33114073.52	0.2707	0.0470
Mercury	85953-08-28 06:00 G	33114987.64	33114987.75	33114987.86	0.2625	0.0844
Mercury	85964-02-29 00:15 G	33118824.41	33118824.51	33118824.61	0.2708	0.1876
Mercury	85966-08-31 00:58 G	33119738.48	33119738.54	33119738.60	0.2625	0.2223
Mercury	85973-08-23 21:36 G	33122288.31	33122288.40	33122288.49	0.2626	0.1563
Mercury	85984-02-23 23:32 G	33126124.42	33126124.48	33126124.54	0.2707	0.2439
Mercury	85986-08-26 16:20 G	33127039.06	33127039.18	33127039.29	0.2626	0.0245
Mercury	85997-02-26 03:08 G	33130875.49	33130875.63	33130875.78	0.2707	0.0062

Mercury 85999-08-29 11:03 G 33131789.86 33131789.96 33131790.07 0.2625 0.1116

87TH MILLENNIUM CE

This is a list of transits visible from Earth in the 87th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	86006-08-22 08:10	G	33134339.82	33134339.84	33134339.85	0.2626	0.2599	
Mercury	86010-03-01 06:15	G	33135626.69	33135626.76	33135626.83	0.2708	0.2313	
Mercury	86012-08-31 06:00	G	33136540.72	33136540.75	33136540.78	0.2625	0.2496	
Mercury	86019-08-25 02:39	G	33139090.51	33139090.61	33139090.71	0.2626	0.1301	
Mercury	86030-02-24 05:46	G	33142926.64	33142926.74	33142926.84	0.2707	0.1987	
Mercury	86032-08-26 21:08	G	33143841.27	33143841.38	33143841.50	0.2625	0.0100	
Mercury	86043-02-27 09:22	G	33147677.74	33147677.89	33147678.03	0.2707	0.0429	
Mercury	86045-08-29 16:05	G	33148592.07	33148592.17	33148592.27	0.2625	0.1390	
Mercury	86052-08-22 12:58	G	33151141.99	33151142.04	33151142.09	0.2626	0.2347	
Mercury	86065-08-25 07:27	G	33155892.71	33155892.81	33155892.92	0.2626	0.1040	
Mercury	86076-02-25 12:00	G	33159728.88	33159729.00	33159729.12	0.2707	0.1532	
Mercury	86078-08-28 02:10	G	33160643.48	33160643.59	33160643.71	0.2625	0.0306	
Venus	86084-06-11 14:39	G	33162757.95	33162758.11	33162758.27	0.2665	0.0438	
Mercury	86089-02-27 15:22	G	33164480.01	33164480.14	33164480.28	0.2707	0.0867	
Mercury	86091-08-30 21:08	G	33165394.29	33165394.38	33165394.47	0.2625	0.1665	
Mercury	86098-08-23 18:00	G	33167944.18	33167944.25	33167944.31	0.2626	0.2089	
Mercury	86111-08-27 12:29	G	33172694.91	33172695.02	33172695.13	0.2626	0.0776	
Mercury	86122-02-26 18:00	G	33176531.12	33176531.25	33176531.39	0.2707	0.1077	

Mercury	86124-08-29 07:12 G	33177445.69	33177445.80	33177445.91	0.2625	0.0567
Mercury	86135-03-01 21:22 G	33181282.27	33181282.39	33181282.52	0.2708	0.1312
Mercury	86137-09-01 01:56 G	33182196.51	33182196.58	33182196.66	0.2625	0.1946
Mercury	86144-08-24 22:48 G	33184746.37	33184746.45	33184746.53	0.2626	0.1834
Mercury	86157-08-27 17:32 G	33189497.11	33189497.23	33189497.34	0.2626	0.0521
Mercury	86168-02-28 00:15 G	33193333.37	33193333.51	33193333.65	0.2707	0.0617
Mercury	86170-08-30 12:15 G	33194247.90	33194248.01	33194248.12	0.2625	0.0842
Mercury	86181-03-02 03:36 G	33198084.54	33198084.65	33198084.76	0.2708	0.1754
Mercury	86183-09-02 06:58 G	33198998.73	33198998.79	33198998.85	0.2625	0.2214
Venus	86189-12-16 05:32 G	33201295.57	33201295.73	33201295.88	0.2667	0.0443
Mercury	86190-08-26 03:51 G	33201548.56	33201548.66	33201548.75	0.2626	0.1573
Mercury	86201-02-26 02:39 G	33205384.58	33205384.61	33205384.64	0.2707	0.2618
Mercury	86203-08-29 22:20 G	33206299.32	33206299.43	33206299.55	0.2626	0.0252
Mercury	86214-03-01 06:29 G	33210135.62	33210135.77	33210135.91	0.2707	0.0171
Mercury	86216-08-31 17:03 G	33211050.11	33211050.21	33211050.32	0.2625	0.1110
Mercury	86223-08-25 14:10 G	33213600.09	33213600.09	33213600.10	0.2627	0.2612
Mercury	86227-03-04 09:51 G	33214886.83	33214886.91	33214886.99	0.2708	0.2199
Mercury	86229-09-03 12:00 G	33215800.97	33215801.00	33215801.03	0.2625	0.2493
Mercury	86236-08-27 08:39 G	33218350.76	33218350.86	33218350.96	0.2626	0.1312
Mercury	86247-02-27 08:53 G	33222186.78	33222186.87	33222186.96	0.2707	0.2157
Mercury	86249-08-30 03:22 G	33223101.52	33223101.64	33223101.76	0.2626	0.0025
Mercury	86260-03-01 12:44 G	33226937.88	33226938.03	33226938.17	0.2707	0.0297
Mercury	86262-09-01 22:05 G	33227852.32	33227852.42	33227852.52	0.2625	0.1381
Mercury	86269-08-25 19:12 G	33230402.25	33230402.30	33230402.35	0.2626	0.2355
Mercury	86273-03-04 15:51 G	33231689.13	33231689.16	33231689.19	0.2708	0.2631
Mercury	86282-08-28 13:41 G	33235152.96	33235153.07	33235153.18	0.2626	0.1044
Mercury	86293-02-27 15:08 G	33238989.02	33238989.13	33238989.24	0.2707	0.1698
Mercury	86295-08-31 08:24 G	33239903.73	33239903.85	33239903.96	0.2626	0.0300
Mercury	86306-03-03 18:44 G	33243740.14	33243740.28	33243740.42	0.2707	0.0733
Mercury	86308-09-03 03:08 G	33244654.54	33244654.63	33244654.72	0.2625	0.1658

Mercury	86315-08-28 00:00 G	33247204.44	33247204.50	33247204.57	0.2626	0.2098
Venus	86327-06-15 14:10 G	33251513.93	33251514.09	33251514.25	0.2666	0.0436
Mercury	86328-08-29 18:44 G	33251955.17	33251955.28	33251955.39	0.2626	0.0787
Mercury	86339-03-01 21:22 G	33255791.26	33255791.39	33255791.52	0.2707	0.1234
Mercury	86341-09-01 13:12 G	33256705.94	33256706.05	33256706.17	0.2626	0.0568
Mercury	86352-03-04 00:58 G	33260542.41	33260542.54	33260542.67	0.2707	0.1181
Mercury	86354-09-04 08:10 G	33261456.76	33261456.84	33261456.91	0.2625	0.1933
Mercury	86361-08-28 05:03 G	33264006.63	33264006.71	33264006.79	0.2626	0.1837
Mercury	86374-08-30 23:32 G	33268757.37	33268757.48	33268757.60	0.2626	0.0518
Mercury	86385-03-02 03:22 G	33272593.51	33272593.64	33272593.78	0.2707	0.0785
Mercury	86387-09-02 18:15 G	33273508.15	33273508.26	33273508.37	0.2625	0.0831
Mercury	86398-03-05 06:58 G	33277344.68	33277344.79	33277344.91	0.2707	0.1626
Mercury	86400-09-04 12:58 G	33278258.98	33278259.04	33278259.11	0.2625	0.2212
Mercury	86407-08-29 10:05 G	33280808.82	33280808.92	33280809.01	0.2626	0.1580
Mercury	86420-08-31 04:34 G	33285559.57	33285559.69	33285559.80	0.2626	0.0252
Mercury	86431-03-03 09:36 G	33289395.76	33289395.90	33289396.05	0.2707	0.0324
Venus	86432-12-18 08:10 G	33290051.69	33290051.84	33290052.00	0.2666	0.0266
Mercury	86433-09-02 23:17 G	33290310.36	33290310.47	33290310.57	0.2625	0.1109
Mercury	86440-08-26 20:24 G	33292860.35	33292860.35	33292860.35	0.2627	0.2622
Mercury	86444-03-05 12:58 G	33294146.95	33294147.04	33294147.13	0.2708	0.2069
Mercury	86446-09-05 18:00 G	33295061.22	33295061.25	33295061.29	0.2625	0.2487
Mercury	86453-08-29 14:53 G	33297611.02	33297611.12	33297611.22	0.2626	0.1314
Mercury	86464-02-29 12:00 G	33301446.93	33301447.00	33301447.07	0.2706	0.2329
Mercury	86466-09-01 09:22 G	33302361.78	33302361.89	33302362.01	0.2626	0.0077
Mercury	86477-03-03 15:51 G	33306198.02	33306198.16	33306198.31	0.2707	0.0138
Mercury	86479-09-04 04:05 G	33307112.57	33307112.67	33307112.77	0.2625	0.1379
Mercury	86486-08-28 01:27 G	33309662.51	33309662.56	33309662.60	0.2627	0.2365
Mercury	86490-03-06 19:12 G	33310949.25	33310949.30	33310949.35	0.2708	0.2512
Mercury	86499-08-30 19:41 G	33314413.22	33314413.32	33314413.43	0.2626	0.1062
Mercury	86510-03-02 18:15 G	33318249.16	33318249.26	33318249.37	0.2707	0.1859

Mercury	86512-09-02 14:24 G	33319163.98	33319164.10	33319164.21	0.2626	0.0285
Mercury	86523-03-05 22:05 G	33323000.28	33323000.42	33323000.56	0.2707	0.0597
Mercury	86525-09-05 09:08 G	33323914.79	33323914.88	33323914.97	0.2625	0.1652
Mercury	86532-08-29 06:15 G	33326464.70	33326464.76	33326464.83	0.2627	0.2105
Mercury	86545-09-01 00:44 G	33331215.42	33331215.53	33331215.64	0.2626	0.0790
Mercury	86556-03-03 00:29 G	33335051.39	33335051.52	33335051.64	0.2707	0.1399
Mercury	86558-09-03 19:12 G	33335966.19	33335966.30	33335966.42	0.2626	0.0561
Mercury	86569-03-06 04:05 G	33339802.54	33339802.67	33339802.81	0.2707	0.1046
Venus	86570-06-16 13:41 G	33340269.91	33340270.07	33340270.23	0.2667	0.0415
Mercury	86571-09-06 14:10 G	33340717.01	33340717.09	33340717.17	0.2625	0.1925
Mercury	86578-08-30 11:17 G	33343266.89	33343266.97	33343267.05	0.2627	0.1844
Mercury	86591-09-02 05:46 G	33348017.62	33348017.74	33348017.85	0.2626	0.0527
Mercury	86602-03-05 06:44 G	33351853.64	33351853.78	33351853.91	0.2707	0.0932
Mercury	86604-09-05 00:15 G	33352768.40	33352768.51	33352768.62	0.2626	0.0830
Mercury	86615-03-08 10:20 G	33356604.81	33356604.93	33356605.05	0.2707	0.1497
Mercury	86617-09-07 19:12 G	33357519.23	33357519.30	33357519.36	0.2625	0.2203
Mercury	86624-08-31 16:05 G	33360069.08	33360069.17	33360069.26	0.2626	0.1584
Mercury	86637-09-03 10:34 G	33364819.83	33364819.94	33364820.06	0.2626	0.0263
Mercury	86648-03-05 12:44 G	33368655.89	33368656.03	33368656.18	0.2707	0.0483
Mercury	86650-09-06 05:17 G	33369570.62	33369570.72	33369570.83	0.2626	0.1099
Mercury	86661-03-08 16:20 G	33373407.09	33373407.18	33373407.28	0.2707	0.1945
Mercury	86663-09-09 00:00 G	33374321.47	33374321.50	33374321.54	0.2625	0.2487
Mercury	86670-09-01 21:08 G	33376871.28	33376871.38	33376871.48	0.2626	0.1326
Venus	86675-12-21 11:46 G	33378807.83	33378807.99	33378808.14	0.2665	0.0063
Mercury	86681-03-03 15:08 G	33380707.08	33380707.13	33380707.18	0.2706	0.2510
Mercury	86683-09-04 15:36 G	33381622.03	33381622.15	33381622.26	0.2626	0.0030
Mercury	86694-03-06 18:58 G	33385458.15	33385458.29	33385458.44	0.2707	0.0046
Mercury	86696-09-06 10:20 G	33386372.83	33386372.93	33386373.03	0.2625	0.1375
Mercury	86703-09-01 07:41 G	33388922.77	33388922.82	33388922.86	0.2627	0.2370
Mercury	86707-03-10 22:34 G	33390209.37	33390209.44	33390209.50	0.2707	0.2387

Mercury	86716-09-03 01:56 G	33393673.48	33393673.58	33393673.69	0.2626	0.1061
Mercury	86727-03-05 21:22 G	33397509.29	33397509.39	33397509.48	0.2706	0.2036
Mercury	86729-09-05 20:39 G	33398424.24	33398424.36	33398424.47	0.2626	0.0296
Mercury	86740-03-08 01:12 G	33402260.41	33402260.55	33402260.69	0.2707	0.0442
Mercury	86742-09-08 15:08 G	33403175.04	33403175.13	33403175.22	0.2625	0.1649
Mercury	86749-09-01 12:29 G	33405724.95	33405725.02	33405725.09	0.2627	0.2115
Mercury	86762-09-04 06:58 G	33410475.68	33410475.79	33410475.90	0.2626	0.0798
Mercury	86773-03-06 03:36 G	33414311.53	33414311.65	33414311.77	0.2706	0.1567
Mercury	86775-09-07 01:27 G	33415226.45	33415226.56	33415226.68	0.2626	0.0554
Mercury	86786-03-09 07:27 G	33419062.67	33419062.81	33419062.94	0.2707	0.0909
Mercury	86788-09-08 20:10 G	33419977.26	33419977.34	33419977.42	0.2625	0.1924
Mercury	86795-09-02 17:17 G	33422527.14	33422527.22	33422527.30	0.2627	0.1857
Mercury	86808-09-04 11:46 G	33427277.88	33427277.99	33427278.11	0.2626	0.0536
Venus	86813-06-18 12:58 G	33429025.88	33429026.04	33429026.20	0.2669	0.0416
Mercury	86819-03-07 09:51 G	33431113.77	33431113.91	33431114.04	0.2706	0.1102
Mercury	86821-09-07 06:29 G	33432028.66	33432028.77	33432028.88	0.2626	0.0820
Mercury	86832-03-09 13:27 G	33435864.94	33435865.06	33435865.19	0.2707	0.1362
Mercury	86834-09-10 01:12 G	33436779.49	33436779.55	33436779.61	0.2625	0.2200
Mercury	86841-09-02 22:20 G	33439329.34	33439329.43	33439329.52	0.2627	0.1595
Mercury	86854-09-05 16:48 G	33444080.08	33444080.20	33444080.31	0.2626	0.0268
Mercury	86865-03-07 16:05 G	33447916.02	33447916.17	33447916.31	0.2707	0.0631
Mercury	86867-09-08 11:17 G	33448830.87	33448830.97	33448831.08	0.2626	0.1098
Mercury	86878-03-10 19:41 G	33452667.22	33452667.32	33452667.43	0.2707	0.1814
Mercury	86880-09-10 06:00 G	33453581.72	33453581.75	33453581.79	0.2625	0.2478
Mercury	86887-09-04 03:08 G	33456131.54	33456131.63	33456131.73	0.2627	0.1335
Mercury	86898-03-05 18:00 G	33459967.24	33459967.25	33459967.27	0.2706	0.2688
Mercury	86900-09-06 21:51 G	33460882.29	33460882.41	33460882.52	0.2626	0.0086
Mercury	86911-03-09 22:05 G	33464718.28	33464718.42	33464718.57	0.2707	0.0187
Mercury	86913-09-09 16:20 G	33465633.08	33465633.18	33465633.28	0.2626	0.1363
Venus	86918-12-23 14:24 G	33467563.95	33467564.10	33467564.26	0.2664	0.0199

Mercury	86920-09-02 13:41 G	33468183.03	33468183.07	33468183.12	0.2627	0.2382
Mercury	86924-03-12 01:56 G	33469469.50	33469469.58	33469469.65	0.2707	0.2268
Mercury	86933-09-05 08:10 G	33472933.74	33472933.84	33472933.95	0.2626	0.1065
Mercury	86944-03-07 00:15 G	33476769.43	33476769.51	33476769.59	0.2706	0.2223
Mercury	86946-09-08 02:39 G	33477684.50	33477684.61	33477684.73	0.2626	0.0282
Mercury	86957-03-10 04:20 G	33481520.54	33481520.68	33481520.83	0.2707	0.0310
Mercury	86959-09-10 21:22 G	33482435.30	33482435.39	33482435.48	0.2626	0.1643
Mercury	86966-09-03 18:44 G	33484985.21	33484985.28	33484985.34	0.2627	0.2121
Mercury	86979-09-06 13:12 G	33489735.94	33489736.05	33489736.16	0.2626	0.0806
Mercury	86990-03-08 06:29 G	33493571.66	33493571.77	33493571.88	0.2706	0.1746
Mercury	86992-09-08 07:41 G	33494486.70	33494486.82	33494486.93	0.2626	0.0548

88TH MILLENNIUM CE

This is a list of transits visible from Earth in the 88th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	87003-03-12 10:34 G	33498322.80	33498322.94	33498323.08	0.2707	0.0751		
Mercury	87005-09-12 02:10 G	33499237.52	33499237.59	33499237.67	0.2626	0.1922		
Mercury	87012-09-04 23:32 G	33501787.40	33501787.48	33501787.56	0.2627	0.1864		
Mercury	87025-09-07 18:00 G	33506538.14	33506538.25	33506538.36	0.2626	0.0537		
Mercury	87036-03-09 12:44 G	33510373.91	33510374.03	33510374.16	0.2706	0.1271		
Mercury	87038-09-10 12:29 G	33511288.91	33511289.02	33511289.13	0.2626	0.0819		
Mercury	87049-03-12 16:48 G	33515125.07	33515125.20	33515125.33	0.2707	0.1218		
Mercury	87051-09-13 07:12 G	33516039.74	33516039.80	33516039.86	0.2625	0.2196		

Venus	87056-06-20 12:29 G	33517781.86	33517782.02	33517782.18	0.2670	0.0420
Mercury	87058-09-06 04:34 G	33518589.60	33518589.69	33518589.78	0.2627	0.1599
Mercury	87071-09-08 23:03 G	33523340.34	33523340.46	33523340.57	0.2626	0.0281
Mercury	87082-03-10 18:58 G	33527176.16	33527176.29	33527176.43	0.2706	0.0800
Mercury	87084-09-10 17:32 G	33528091.12	33528091.23	33528091.33	0.2626	0.1088
Mercury	87095-03-13 22:48 G	33531927.34	33531927.45	33531927.57	0.2707	0.1679
Mercury	87097-09-13 12:15 G	33532841.97	33532842.01	33532842.05	0.2625	0.2472
Mercury	87104-09-07 09:22 G	33535391.79	33535391.89	33535391.99	0.2627	0.1341
Mercury	87117-09-10 03:51 G	33540142.55	33540142.66	33540142.78	0.2626	0.0023
Mercury	87128-03-12 01:27 G	33543978.41	33543978.56	33543978.70	0.2707	0.0332
Mercury	87130-09-12 22:34 G	33544893.34	33544893.44	33544893.53	0.2626	0.1365
Mercury	87137-09-05 19:56 G	33547443.29	33547443.33	33547443.38	0.2627	0.2390
Mercury	87141-03-15 05:03 G	33548729.62	33548729.71	33548729.80	0.2707	0.2139
Mercury	87150-09-08 14:24 G	33552193.99	33552194.10	33552194.20	0.2627	0.1075
Mercury	87161-03-10 03:22 G	33556029.57	33556029.64	33556029.70	0.2706	0.2399
Venus	87161-12-25 17:46 G	33556320.09	33556320.24	33556320.39	0.2663	0.0422
Mercury	87163-09-11 08:53 G	33556944.75	33556944.87	33556944.98	0.2626	0.0281
Mercury	87174-03-13 07:27 G	33560780.67	33560780.81	33560780.96	0.2707	0.0143
Mercury	87176-09-13 03:22 G	33561695.55	33561695.64	33561695.73	0.2626	0.1637
Mercury	87183-09-07 00:58 G	33564245.47	33564245.54	33564245.60	0.2627	0.2129
Mercury	87187-03-16 11:17 G	33565531.93	33565531.97	33565532.01	0.2707	0.2588
Mercury	87196-09-08 19:12 G	33568996.19	33568996.30	33568996.41	0.2627	0.0811
Mercury	87207-03-11 09:36 G	33572831.80	33572831.90	33572832.00	0.2706	0.1917
Mercury	87209-09-11 13:41 G	33573746.96	33573747.07	33573747.19	0.2626	0.0539
Mercury	87220-03-13 13:41 G	33577582.93	33577583.07	33577583.21	0.2707	0.0613
Mercury	87222-09-14 08:24 G	33578497.77	33578497.85	33578497.93	0.2626	0.1911
Mercury	87229-09-07 05:46 G	33581047.66	33581047.74	33581047.82	0.2627	0.1867
Mercury	87242-09-10 00:15 G	33585798.39	33585798.51	33585798.62	0.2626	0.0545
Mercury	87253-03-11 15:51 G	33589634.04	33589634.16	33589634.28	0.2706	0.1442
Mercury	87255-09-12 18:44 G	33590549.17	33590549.28	33590549.39	0.2626	0.0810

Mercury	87266-03-14 19:56 G	33594385.20	33594385.33	33594385.46	0.2707	0.1074
Mercury	87268-09-14 13:27 G	33595299.99	33595300.06	33595300.12	0.2626	0.2190
Mercury	87275-09-08 10:48 G	33597849.86	33597849.95	33597850.04	0.2627	0.1609
Mercury	87288-09-10 05:03 G	33602600.60	33602600.71	33602600.83	0.2626	0.0277
Mercury	87299-03-12 22:05 G	33606436.28	33606436.42	33606436.56	0.2706	0.0971
Venus	87299-06-22 11:46 G	33606537.83	33606537.99	33606538.15	0.2671	0.0428
Mercury	87301-09-13 23:46 G	33607351.38	33607351.49	33607351.59	0.2626	0.1089
Mercury	87312-03-16 02:10 G	33611187.47	33611187.59	33611187.71	0.2707	0.1540
Mercury	87314-09-16 18:15 G	33612102.23	33612102.26	33612102.30	0.2626	0.2470
Mercury	87321-09-09 15:36 G	33614652.05	33614652.15	33614652.25	0.2627	0.1343
Mercury	87334-09-12 10:05 G	33619402.80	33619402.92	33619403.03	0.2626	0.0052
Mercury	87345-03-14 04:20 G	33623238.53	33623238.68	33623238.82	0.2706	0.0495
Mercury	87347-09-15 04:34 G	33624153.59	33624153.69	33624153.79	0.2626	0.1359
Mercury	87354-09-08 02:10 G	33626703.55	33626703.59	33626703.64	0.2627	0.2398
Mercury	87358-03-17 08:10 G	33627989.75	33627989.84	33627989.94	0.2707	0.1994
Mercury	87367-09-10 20:24 G	33631454.25	33631454.35	33631454.46	0.2627	0.1087
Mercury	87378-03-12 06:15 G	33635289.72	33635289.76	33635289.80	0.2706	0.2582
Mercury	87380-09-12 14:53 G	33636205.01	33636205.12	33636205.24	0.2626	0.0272
Mercury	87391-03-15 10:34 G	33640040.79	33640040.94	33640041.09	0.2706	0.0019
Mercury	87393-09-15 09:36 G	33640955.81	33640955.90	33640955.99	0.2626	0.1633
Mercury	87400-09-09 07:12 G	33643505.73	33643505.80	33643505.86	0.2627	0.2137
Mercury	87404-03-18 14:24 G	33644792.04	33644792.10	33644792.16	0.2707	0.2461
Venus	87404-12-27 20:39 G	33645076.21	33645076.36	33645076.52	0.2661	0.0634
Venus	87412-12-25 13:41 G	33647996.02	33647996.07	33647996.12	0.2660	0.2493
Mercury	87413-09-12 01:27 G	33648256.45	33648256.56	33648256.67	0.2627	0.0816
Mercury	87424-03-13 12:29 G	33652091.93	33652092.02	33652092.11	0.2706	0.2100
Mercury	87426-09-14 19:56 G	33653007.22	33653007.33	33653007.44	0.2626	0.0532
Mercury	87437-03-16 16:48 G	33656843.06	33656843.20	33656843.34	0.2706	0.0459
Mercury	87439-09-17 14:24 G	33657758.02	33657758.10	33657758.18	0.2626	0.1909
Mercury	87446-09-10 12:00 G	33660307.92	33660308.00	33660308.08	0.2627	0.1879

Mercury	87459-09-13 06:15 G	33665058.65	33665058.76	33665058.88	0.2627	0.0558
Mercury	87470-03-14 18:44 G	33668894.16	33668894.28	33668894.40	0.2706	0.1622
Mercury	87472-09-15 00:58 G	33669809.42	33669809.54	33669809.65	0.2626	0.0813
Mercury	87483-03-17 23:03 G	33673645.32	33673645.46	33673645.60	0.2706	0.0931
Mercury	87485-09-17 19:27 G	33674560.25	33674560.31	33674560.37	0.2626	0.2184
Mercury	87492-09-10 17:03 G	33677110.12	33677110.21	33677110.29	0.2627	0.1616
Mercury	87505-09-14 11:17 G	33681860.86	33681860.97	33681861.09	0.2627	0.0283
Mercury	87516-03-16 00:58 G	33685696.41	33685696.54	33685696.68	0.2706	0.1139
Mercury	87518-09-17 05:46 G	33686611.64	33686611.74	33686611.85	0.2626	0.1076
Mercury	87529-03-19 05:17 G	33690447.59	33690447.72	33690447.84	0.2707	0.1396
Mercury	87531-09-20 00:15 G	33691362.48	33691362.51	33691362.55	0.2626	0.2466
Mercury	87538-09-12 21:51 G	33693912.31	33693912.41	33693912.51	0.2627	0.1352
Venus	87542-06-25 11:03 G	33695293.80	33695293.96	33695294.12	0.2672	0.0447
Mercury	87551-09-15 16:20 G	33698663.06	33698663.18	33698663.29	0.2627	0.0088
Mercury	87562-03-17 07:27 G	33702498.66	33702498.81	33702498.95	0.2706	0.0655
Mercury	87564-09-17 10:48 G	33703413.85	33703413.95	33703414.05	0.2626	0.1356
Mercury	87571-09-11 08:24 G	33705963.81	33705963.85	33705963.90	0.2628	0.2404
Mercury	87575-03-20 11:32 G	33707249.87	33707249.98	33707250.08	0.2707	0.1867
Mercury	87584-09-13 02:39 G	33710714.51	33710714.61	33710714.72	0.2627	0.1090
Mercury	87597-09-15 21:08 G	33715465.27	33715465.38	33715465.50	0.2626	0.0261
Mercury	87608-03-17 13:41 G	33719300.92	33719301.07	33719301.21	0.2706	0.0192
Mercury	87610-09-18 15:36 G	33720216.06	33720216.15	33720216.24	0.2626	0.1628
Mercury	87617-09-11 13:27 G	33722765.99	33722766.06	33722766.12	0.2627	0.2145
Mercury	87621-03-20 17:46 G	33724052.16	33724052.24	33724052.31	0.2707	0.2331
Mercury	87630-09-14 07:41 G	33727516.71	33727516.82	33727516.93	0.2627	0.0821
Mercury	87641-03-15 15:22 G	33731352.06	33731352.14	33731352.22	0.2706	0.2291
Mercury	87643-09-17 02:10 G	33732267.47	33732267.59	33732267.70	0.2626	0.0538
Venus	87647-12-29 23:46 G	33733832.34	33733832.49	33733832.64	0.2661	0.0848
Mercury	87654-03-18 19:56 G	33736103.18	33736103.33	33736103.47	0.2706	0.0302
Venus	87655-12-27 16:48 G	33736752.12	33736752.20	33736752.29	0.2659	0.2258

Mercury	87656-09-18 20:39 G	33737018.28	33737018.36	33737018.44	0.2626	0.1906
Mercury	87663-09-12 18:15 G	33739568.18	33739568.26	33739568.34	0.2627	0.1884
Mercury	87676-09-14 12:29 G	33744318.91	33744319.02	33744319.14	0.2627	0.0562
Mercury	87687-03-16 21:51 G	33748154.30	33748154.41	33748154.52	0.2706	0.1799
Mercury	87689-09-17 06:58 G	33749069.68	33749069.79	33749069.90	0.2626	0.0800
Mercury	87700-03-20 02:10 G	33752905.45	33752905.59	33752905.73	0.2706	0.0778
Mercury	87702-09-21 01:27 G	33753820.50	33753820.56	33753820.63	0.2626	0.2186
Mercury	87709-09-13 23:17 G	33756370.38	33756370.47	33756370.55	0.2627	0.1626
Mercury	87722-09-16 17:32 G	33761121.11	33761121.23	33761121.34	0.2627	0.0292
Mercury	87733-03-18 04:05 G	33764956.54	33764956.67	33764956.80	0.2706	0.1304
Mercury	87735-09-19 12:00 G	33765871.89	33765872.00	33765872.10	0.2626	0.1079
Mercury	87746-03-21 08:24 G	33769707.72	33769707.85	33769707.98	0.2706	0.1253
Mercury	87748-09-21 06:29 G	33770622.73	33770622.77	33770622.81	0.2626	0.2461
Mercury	87755-09-15 04:05 G	33773172.57	33773172.67	33773172.77	0.2627	0.1357
Mercury	87768-09-16 22:20 G	33777923.32	33777923.43	33777923.55	0.2627	0.0059
Mercury	87779-03-19 10:20 G	33781758.79	33781758.93	33781759.07	0.2706	0.0827
Mercury	87781-09-19 16:48 G	33782674.10	33782674.20	33782674.30	0.2626	0.1346
Venus	87785-06-26 10:34 G	33784049.78	33784049.94	33784050.10	0.2673	0.0458
Mercury	87788-09-12 14:53 G	33785224.07	33785224.12	33785224.16	0.2628	0.2412
Mercury	87792-03-21 14:39 G	33786509.99	33786510.11	33786510.22	0.2706	0.1726
Mercury	87801-09-16 08:53 G	33789974.77	33789974.87	33789974.98	0.2627	0.1098
Mercury	87814-09-19 03:22 G	33794725.52	33794725.64	33794725.75	0.2627	0.0260
Mercury	87825-03-20 16:34 G	33798561.05	33798561.19	33798561.34	0.2706	0.0342
Mercury	87827-09-21 21:51 G	33799476.32	33799476.41	33799476.50	0.2626	0.1626
Mercury	87834-09-14 19:41 G	33802026.26	33802026.32	33802026.38	0.2628	0.2151
Mercury	87838-03-23 20:39 G	33803312.28	33803312.36	33803312.45	0.2707	0.2194
Mercury	87847-09-17 13:56 G	33806776.97	33806777.08	33806777.19	0.2627	0.0824
Mercury	87858-03-18 18:15 G	33810612.21	33810612.26	33810612.32	0.2705	0.2478
Mercury	87860-09-19 08:10 G	33811527.73	33811527.84	33811527.96	0.2627	0.0528
Mercury	87871-03-21 22:48 G	33815363.30	33815363.45	33815363.60	0.2706	0.0141

Mercury	87873-09-22 02:39 G	33816278.54	33816278.61	33816278.69	0.2626	0.1905
Mercury	87880-09-15 00:29 G	33818828.45	33818828.52	33818828.60	0.2628	0.1889
Mercury	87884-03-24 02:53 G	33820114.60	33820114.62	33820114.64	0.2707	0.2661
Venus	87891-01-01 03:08 G	33822588.48	33822588.63	33822588.77	0.2659	0.1085
Mercury	87893-09-17 18:44 G	33823579.17	33823579.28	33823579.39	0.2627	0.0561
Venus	87898-12-29 19:56 G	33825508.23	33825508.33	33825508.43	0.2658	0.2041
Mercury	87904-03-20 00:29 G	33827414.43	33827414.52	33827414.62	0.2705	0.1986
Mercury	87906-09-21 13:12 G	33828329.94	33828330.05	33828330.16	0.2627	0.0801
Mercury	87917-03-23 05:03 G	33832165.57	33832165.71	33832165.86	0.2706	0.0621
Mercury	87919-09-24 07:41 G	33833080.76	33833080.82	33833080.88	0.2626	0.2183
Mercury	87926-09-17 05:32 G	33835630.64	33835630.73	33835630.82	0.2627	0.1626
Mercury	87939-09-19 23:46 G	33840381.37	33840381.49	33840381.60	0.2627	0.0298
Mercury	87950-03-21 06:58 G	33844216.66	33844216.79	33844216.91	0.2705	0.1497
Mercury	87952-09-21 18:00 G	33845132.15	33845132.25	33845132.36	0.2626	0.1075
Mercury	87963-03-24 11:17 G	33848967.84	33848967.97	33848968.10	0.2706	0.1096
Mercury	87965-09-24 12:44 G	33849882.99	33849883.03	33849883.06	0.2626	0.2462
Mercury	87972-09-17 10:20 G	33852432.83	33852432.93	33852433.03	0.2627	0.1362
Mercury	87985-09-20 04:34 G	33857183.58	33857183.69	33857183.81	0.2627	0.0030
Mercury	87996-03-21 13:12 G	33861018.91	33861019.05	33861019.19	0.2706	0.1000
Mercury	87998-09-22 23:03 G	33861934.36	33861934.46	33861934.56	0.2626	0.1350

89TH MILLENNIUM CE

This is a list of transits visible from Earth in the 89th millennium CE.

PLANET	MAX- TRANSIT	C	START	MAX	END	SUNRAD	DEPTH	S
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TIME

Mercury	88005-09-15 21:08 G	33864484.33	33864484.38	33864484.42	0.2628	0.2422
Mercury	88009-03-24 17:32 G	33865770.11	33865770.23	33865770.35	0.2706	0.1578
Mercury	88018-09-18 15:08 G	33869235.03	33869235.13	33869235.24	0.2627	0.1099
Venus	88028-06-28 09:51 G	33872805.75	33872805.91	33872806.06	0.2675	0.0488
Mercury	88031-09-21 09:36 G	33873985.78	33873985.90	33873986.01	0.2627	0.0264
Mercury	88042-03-22 19:27 G	33877821.17	33877821.31	33877821.46	0.2706	0.0514
Mercury	88044-09-23 04:05 G	33878736.58	33878736.67	33878736.76	0.2626	0.1626
Mercury	88051-09-17 01:56 G	33881286.52	33881286.58	33881286.64	0.2628	0.2158
Mercury	88055-03-25 23:46 G	33882572.40	33882572.49	33882572.59	0.2706	0.2057
Mercury	88064-09-18 20:10 G	33886037.23	33886037.34	33886037.44	0.2627	0.0838
Mercury	88075-03-20 21:08 G	33889872.36	33889872.38	33889872.40	0.2705	0.2669
Mercury	88077-09-21 14:24 G	33890787.99	33890788.10	33890788.21	0.2627	0.0521
Mercury	88088-03-23 01:56 G	33894623.43	33894623.58	33894623.72	0.2706	0.0057
Mercury	88090-09-24 08:53 G	33895538.79	33895538.87	33895538.95	0.2626	0.1903
Mercury	88097-09-17 06:44 G	33898088.71	33898088.78	33898088.86	0.2628	0.1893
Mercury	88101-03-27 06:15 G	33899374.71	33899374.76	33899374.80	0.2706	0.2534
Mercury	88110-09-21 00:58 G	33902839.43	33902839.54	33902839.65	0.2627	0.0563
Mercury	88121-03-22 03:22 G	33906674.56	33906674.64	33906674.73	0.2705	0.2169
Mercury	88123-09-23 19:27 G	33907590.20	33907590.31	33907590.42	0.2627	0.0798
Venus	88134-01-03 06:00 G	33911344.62	33911344.75	33911344.89	0.2658	0.1309
Mercury	88134-03-25 08:10 G	33911425.69	33911425.84	33911425.98	0.2706	0.0466
Mercury	88136-09-25 13:56 G	33912341.01	33912341.08	33912341.14	0.2626	0.2178
Venus	88141-12-31 23:03 G	33914264.35	33914264.46	33914264.58	0.2657	0.1805
Mercury	88143-09-19 11:46 G	33914890.90	33914890.99	33914891.07	0.2628	0.1632
Mercury	88156-09-21 06:00 G	33919641.63	33919641.75	33919641.86	0.2627	0.0299
Mercury	88167-03-23 09:51 G	33923476.79	33923476.91	33923477.02	0.2705	0.1675
Mercury	88169-09-24 00:15 G	33924392.41	33924392.51	33924392.62	0.2627	0.1075
Mercury	88180-03-25 14:24 G	33928227.96	33928228.10	33928228.24	0.2706	0.0956
Mercury	88182-09-26 18:44 G	33929143.24	33929143.28	33929143.32	0.2626	0.2458

Mercury	88189-09-19 16:34 G	33931693.09	33931693.19	33931693.29	0.2628	0.1365
Mercury	88202-09-23 10:48 G	33936443.84	33936443.95	33936444.07	0.2627	0.0048
Mercury	88213-03-24 16:05 G	33940279.04	33940279.17	33940279.30	0.2705	0.1182
Mercury	88215-09-26 05:17 G	33941194.62	33941194.72	33941194.82	0.2627	0.1348
Mercury	88222-09-19 03:22 G	33943744.60	33943744.64	33943744.68	0.2628	0.2424
Mercury	88226-03-27 20:39 G	33945030.24	33945030.36	33945030.48	0.2706	0.1432
Mercury	88235-09-21 21:22 G	33948495.29	33948495.39	33948495.50	0.2628	0.1104
Mercury	88248-09-23 15:51 G	33953246.04	33953246.16	33953246.27	0.2627	0.0262
Mercury	88259-03-25 22:34 G	33957081.29	33957081.44	33957081.58	0.2705	0.0684
Mercury	88261-09-26 10:05 G	33957996.83	33957996.92	33957997.01	0.2626	0.1625
Mercury	88268-09-19 08:10 G	33960546.78	33960546.84	33960546.90	0.2628	0.2160
Venus	88271-07-01 09:22 G	33961561.73	33961561.89	33961562.05	0.2676	0.0486
Mercury	88272-03-28 02:53 G	33961832.52	33961832.62	33961832.72	0.2706	0.1912
Mercury	88281-09-22 02:24 G	33965297.49	33965297.60	33965297.71	0.2627	0.0832
Mercury	88294-09-24 20:39 G	33970048.25	33970048.36	33970048.47	0.2627	0.0523
Mercury	88305-03-27 04:48 G	33973883.55	33973883.70	33973883.85	0.2706	0.0191
Mercury	88307-09-28 15:08 G	33974799.05	33974799.13	33974799.20	0.2626	0.1900
Mercury	88314-09-21 12:58 G	33977348.97	33977349.04	33977349.12	0.2628	0.1903
Mercury	88318-03-30 09:08 G	33978634.82	33978634.88	33978634.95	0.2706	0.2395
Mercury	88327-09-24 07:12 G	33982099.69	33982099.80	33982099.91	0.2627	0.0568
Mercury	88338-03-25 06:15 G	33985934.69	33985934.76	33985934.83	0.2705	0.2360
Mercury	88340-09-26 01:41 G	33986850.46	33986850.57	33986850.67	0.2627	0.0803
Mercury	88351-03-28 11:03 G	33990685.82	33990685.96	33990686.11	0.2706	0.0322
Mercury	88353-09-28 19:56 G	33991601.27	33991601.33	33991601.39	0.2626	0.2181
Mercury	88360-09-21 18:00 G	33994151.16	33994151.25	33994151.34	0.2628	0.1637
Mercury	88373-09-24 12:15 G	33998901.89	33998902.01	33998902.12	0.2627	0.0304
Venus	88377-01-05 09:22 G	34000100.76	34000100.89	34000101.02	0.2657	0.1538
Mercury	88384-03-25 12:44 G	34002736.92	34002737.03	34002737.13	0.2705	0.1855
Venus	88385-01-03 02:24 G	34003020.47	34003020.60	34003020.73	0.2656	0.1566
Mercury	88386-09-27 06:29 G	34003652.66	34003652.77	34003652.87	0.2627	0.1069

Mercury	88397-03-28 17:17 G	34007488.08	34007488.22	34007488.36	0.2706	0.0799
Mercury	88399-09-30 00:58 G	34008403.50	34008403.54	34008403.58	0.2626	0.2459
Mercury	88406-09-22 22:48 G	34010953.36	34010953.45	34010953.55	0.2628	0.1371
Mercury	88419-09-25 17:03 G	34015704.10	34015704.21	34015704.32	0.2627	0.0027
Mercury	88430-03-26 18:58 G	34019539.16	34019539.29	34019539.42	0.2705	0.1349
Mercury	88432-09-27 11:17 G	34020454.87	34020454.97	34020455.07	0.2627	0.1344
Mercury	88439-09-21 09:36 G	34023004.86	34023004.90	34023004.94	0.2629	0.2425
Mercury	88443-03-29 23:46 G	34024290.36	34024290.49	34024290.61	0.2706	0.1290
Mercury	88452-09-23 03:51 G	34027755.55	34027755.66	34027755.76	0.2628	0.1102
Mercury	88465-09-25 21:51 G	34032506.30	34032506.41	34032506.53	0.2627	0.0268
Mercury	88476-03-27 01:27 G	34036341.41	34036341.56	34036341.70	0.2705	0.0856
Mercury	88478-09-28 16:20 G	34037257.09	34037257.18	34037257.27	0.2627	0.1620
Mercury	88485-09-21 14:24 G	34039807.04	34039807.10	34039807.17	0.2628	0.2168
Mercury	88489-03-30 06:00 G	34041092.64	34041092.75	34041092.86	0.2706	0.1772
Mercury	88498-09-24 08:39 G	34044557.75	34044557.86	34044557.97	0.2628	0.0834
Mercury	88511-09-28 02:53 G	34049308.51	34049308.62	34049308.73	0.2627	0.0523
Venus	88514-07-03 08:39 G	34050317.70	34050317.86	34050318.01	0.2677	0.0531
Mercury	88522-03-29 07:41 G	34053143.67	34053143.82	34053143.97	0.2705	0.0357
Mercury	88524-09-29 21:22 G	34054059.31	34054059.39	34054059.46	0.2627	0.1904
Mercury	88531-09-23 19:27 G	34056609.23	34056609.31	34056609.38	0.2628	0.1903
Mercury	88535-04-01 12:15 G	34057894.93	34057895.01	34057895.09	0.2706	0.2257
Mercury	88544-09-25 13:27 G	34061359.95	34061360.06	34061360.17	0.2628	0.0570
Mercury	88555-03-27 09:08 G	34065194.83	34065194.88	34065194.92	0.2705	0.2553
Mercury	88557-09-28 07:41 G	34066110.71	34066110.82	34066110.93	0.2627	0.0796
Mercury	88568-03-29 13:56 G	34069945.93	34069946.08	34069946.23	0.2705	0.0134
Mercury	88570-10-01 02:10 G	34070861.53	34070861.59	34070861.65	0.2627	0.2182
Mercury	88577-09-24 00:15 G	34073411.42	34073411.51	34073411.60	0.2628	0.1639
Mercury	88590-09-26 18:29 G	34078162.15	34078162.27	34078162.38	0.2628	0.0314
Mercury	88601-03-28 15:22 G	34081997.05	34081997.14	34081997.24	0.2705	0.2043
Mercury	88603-09-30 12:44 G	34082912.92	34082913.03	34082913.13	0.2627	0.1069

Mercury	88614-03-31 20:10 G	34086748.20	34086748.34	34086748.49	0.2705	0.0641
Mercury	88616-10-02 07:12 G	34087663.76	34087663.80	34087663.83	0.2626	0.2463
Venus	88620-01-08 12:29 G	34088856.90	34088857.02	34088857.14	0.2656	0.1775
Mercury	88623-09-26 05:03 G	34090213.62	34090213.71	34090213.81	0.2628	0.1373
Venus	88628-01-06 05:17 G	34091776.59	34091776.72	34091776.86	0.2654	0.1356
Mercury	88636-09-27 23:17 G	34094964.36	34094964.47	34094964.58	0.2627	0.0028
Mercury	88647-03-29 21:51 G	34098799.29	34098799.41	34098799.53	0.2705	0.1534
Mercury	88649-09-30 17:32 G	34099715.14	34099715.23	34099715.33	0.2627	0.1347
Mercury	88656-09-23 15:51 G	34102265.12	34102265.16	34102265.20	0.2629	0.2435
Mercury	88660-04-01 02:39 G	34103550.47	34103550.61	34103550.74	0.2706	0.1128
Mercury	88669-09-26 10:05 G	34107015.81	34107015.92	34107016.02	0.2628	0.1114
Mercury	88682-09-29 04:05 G	34111766.56	34111766.67	34111766.79	0.2627	0.0256
Mercury	88693-03-30 04:05 G	34115601.53	34115601.67	34115601.81	0.2705	0.1037
Mercury	88695-10-01 22:34 G	34116517.35	34116517.44	34116517.53	0.2627	0.1623
Mercury	88702-09-25 20:53 G	34119067.30	34119067.37	34119067.43	0.2629	0.2172
Mercury	88706-04-03 08:53 G	34120352.75	34120352.87	34120352.99	0.2706	0.1628
Mercury	88715-09-28 14:53 G	34123818.01	34123818.12	34123818.23	0.2628	0.0840
Mercury	88728-09-30 09:07 G	34128568.77	34128568.88	34128568.99	0.2627	0.0517
Mercury	88739-04-01 10:19 G	34132403.79	34132403.93	34132404.08	0.2705	0.0540
Mercury	88741-10-03 03:22 G	34133319.57	34133319.64	34133319.72	0.2627	0.1901
Mercury	88748-09-26 01:41 G	34135869.49	34135869.57	34135869.65	0.2628	0.1907
Mercury	88752-04-03 15:07 G	34137155.04	34137155.13	34137155.22	0.2706	0.2108
Venus	88757-07-05 08:10 G	34139073.68	34139073.84	34139074.00	0.2678	0.0531
Mercury	88761-09-28 19:41 G	34140620.21	34140620.32	34140620.43	0.2628	0.0574
Mercury	88774-10-01 13:55 G	34145370.97	34145371.08	34145371.19	0.2627	0.0797
Mercury	88785-04-01 16:48 G	34149206.05	34149206.20	34149206.35	0.2705	0.0042
Mercury	88787-10-04 08:24 G	34150121.79	34150121.85	34150121.91	0.2627	0.2179
Mercury	88794-09-27 06:29 G	34152671.68	34152671.77	34152671.86	0.2628	0.1640
Mercury	88798-04-04 21:22 G	34153957.36	34153957.39	34153957.43	0.2706	0.2602
Mercury	88807-09-30 00:43 G	34157422.41	34157422.53	34157422.64	0.2628	0.0302

Mercury	88818-03-30 18:00 G	34161257.17	34161257.25	34161257.34	0.2704	0.2243
Mercury	88820-10-01 18:58 G	34162173.18	34162173.29	34162173.39	0.2627	0.1069
Mercury	88831-04-02 23:03 G	34166008.32	34166008.46	34166008.61	0.2705	0.0477
Mercury	88833-10-04 13:12 G	34166924.02	34166924.05	34166924.09	0.2627	0.2460
Mercury	88840-09-27 11:17 G	34169473.88	34169473.97	34169474.07	0.2628	0.1382
Mercury	88853-09-30 05:31 G	34174224.62	34174224.73	34174224.85	0.2628	0.0046
Venus	88863-01-09 15:36 G	34177613.05	34177613.15	34177613.25	0.2655	0.1995
Mercury	88864-03-31 00:29 G	34178059.41	34178059.52	34178059.63	0.2705	0.1738
Mercury	88866-10-02 23:46 G	34178975.40	34178975.49	34178975.59	0.2627	0.1351
Venus	88871-01-07 08:39 G	34180532.72	34180532.86	34180533.01	0.2654	0.1096
Mercury	88873-09-25 22:19 G	34181525.39	34181525.43	34181525.46	0.2629	0.2443
Mercury	88877-04-03 05:31 G	34182810.59	34182810.73	34182810.87	0.2705	0.0971
Mercury	88886-09-28 16:19 G	34186276.08	34186276.18	34186276.28	0.2628	0.1110
Mercury	88899-10-01 10:34 G	34191026.82	34191026.94	34191027.05	0.2628	0.0259
Mercury	88910-04-02 06:58 G	34194861.65	34194861.79	34194861.92	0.2705	0.1221
Mercury	88912-10-04 04:48 G	34195777.61	34195777.70	34195777.79	0.2627	0.1624
Mercury	88919-09-28 03:07 G	34198327.57	34198327.63	34198327.69	0.2629	0.2177
Mercury	88923-04-05 11:46 G	34199612.87	34199612.99	34199613.11	0.2705	0.1461
Mercury	88932-09-29 21:07 G	34203078.27	34203078.38	34203078.49	0.2628	0.0844
Mercury	88945-10-02 15:22 G	34207829.03	34207829.14	34207829.25	0.2628	0.0518
Mercury	88956-04-02 13:27 G	34211663.91	34211664.06	34211664.20	0.2705	0.0707
Mercury	88958-10-05 09:36 G	34212579.82	34212579.90	34212579.98	0.2627	0.1900
Mercury	88965-09-28 07:55 G	34215129.75	34215129.83	34215129.91	0.2629	0.1913
Mercury	88969-04-05 18:00 G	34216415.15	34216415.25	34216415.35	0.2705	0.1968
Mercury	88978-10-01 02:10 G	34219880.47	34219880.59	34219880.70	0.2628	0.0580
Mercury	88991-10-03 20:10 G	34224631.23	34224631.34	34224631.45	0.2627	0.0793
Venus	89000-07-07 07:12 G	34227829.65	34227829.80	34227829.96	0.2679	0.0590

90TH MILLENNIUM CE

This is a list of transits visible from Earth in the 90th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	89002-04-04 19:41	G	34228466.17	34228466.32	34228466.47	0.2705	0.0199	
Mercury	89004-10-06 14:24	G	34229382.04	34229382.10	34229382.17	0.2627	0.2180	
Mercury	89011-09-30 12:43	G	34231931.95	34231932.03	34231932.12	0.2629	0.1650	
Mercury	89015-04-08 00:29	G	34233217.46	34233217.52	34233217.58	0.2706	0.2460	
Mercury	89024-10-02 06:58	G	34236682.68	34236682.79	34236682.90	0.2628	0.0304	
Mercury	89035-04-02 20:53	G	34240517.30	34240517.37	34240517.43	0.2704	0.2440	
Mercury	89037-10-05 01:12	G	34241433.44	34241433.55	34241433.65	0.2627	0.1072	
Mercury	89048-04-05 01:55	G	34245268.44	34245268.58	34245268.73	0.2705	0.0314	
Mercury	89050-10-07 19:27	G	34246184.27	34246184.31	34246184.35	0.2627	0.2458	
Mercury	89057-09-30 17:46	G	34248734.14	34248734.24	34248734.33	0.2629	0.1379	
Mercury	89070-10-03 11:46	G	34253484.88	34253484.99	34253485.11	0.2628	0.0066	
Mercury	89081-04-03 03:22	G	34257319.53	34257319.64	34257319.74	0.2704	0.1920	
Mercury	89083-10-06 06:00	G	34258235.65	34258235.75	34258235.85	0.2627	0.1341	
Mercury	89090-09-29 04:34	G	34260785.65	34260785.69	34260785.73	0.2629	0.2441	
Mercury	89094-04-06 08:24	G	34262070.70	34262070.85	34262070.99	0.2705	0.0811	
Mercury	89103-10-02 22:34	G	34265536.34	34265536.44	34265536.54	0.2628	0.1112	
Venus	89106-01-12 18:43	G	34266369.20	34266369.28	34266369.37	0.2654	0.2240	
Venus	89114-01-10 11:31	G	34269288.84	34269288.98	34269289.13	0.2652	0.0897	
Mercury	89116-10-04 16:34	G	34270287.08	34270287.19	34270287.31	0.2628	0.0265	
Mercury	89127-04-05 09:36	G	34274121.78	34274121.90	34274122.03	0.2704	0.1404	
Mercury	89129-10-07 10:48	G	34275037.87	34275037.95	34275038.04	0.2627	0.1626	
Mercury	89136-09-30 09:22	G	34277587.83	34277587.89	34277587.95	0.2629	0.2181	

Mercury	89140-04-07 14:39 G	34278872.98	34278873.11	34278873.24	0.2705	0.1314
Mercury	89149-10-03 03:22 G	34282338.54	34282338.64	34282338.75	0.2628	0.0847
Mercury	89162-10-05 21:36 G	34287089.29	34287089.40	34287089.51	0.2628	0.0518
Mercury	89173-04-05 16:05 G	34290924.02	34290924.17	34290924.31	0.2704	0.0898
Mercury	89175-10-08 15:51 G	34291840.08	34291840.16	34291840.24	0.2627	0.1899
Mercury	89182-10-01 14:24 G	34294390.02	34294390.10	34294390.17	0.2629	0.1916
Mercury	89186-04-08 20:53 G	34295675.26	34295675.37	34295675.48	0.2705	0.1807
Mercury	89195-10-04 08:24 G	34299140.74	34299140.85	34299140.96	0.2628	0.0579
Mercury	89208-10-06 02:24 G	34303891.49	34303891.60	34303891.71	0.2628	0.0794
Mercury	89219-04-06 22:19 G	34307726.28	34307726.43	34307726.58	0.2705	0.0384
Mercury	89221-10-08 20:39 G	34308642.30	34308642.36	34308642.43	0.2627	0.2185
Mercury	89228-10-01 19:12 G	34311192.21	34311192.30	34311192.38	0.2629	0.1653
Mercury	89232-04-09 03:22 G	34312477.56	34312477.64	34312477.71	0.2705	0.2308
Mercury	89241-10-04 13:12 G	34315942.94	34315943.05	34315943.16	0.2628	0.0303
Venus	89243-07-09 06:43 G	34316585.62	34316585.78	34316585.94	0.2681	0.0605
Mercury	89252-04-03 23:31 G	34319777.45	34319777.48	34319777.51	0.2704	0.2636
Mercury	89254-10-07 07:27 G	34320693.70	34320693.81	34320693.91	0.2628	0.1069
Mercury	89265-04-07 04:48 G	34324528.55	34324528.70	34324528.85	0.2705	0.0140
Mercury	89267-10-10 01:41 G	34325444.53	34325444.57	34325444.61	0.2627	0.2462
Mercury	89274-10-03 00:00 G	34327994.40	34327994.50	34327994.60	0.2629	0.1384
Mercury	89287-10-05 18:00 G	34332745.14	34332745.25	34332745.36	0.2628	0.0041
Mercury	89298-04-05 06:00 G	34336579.65	34336579.75	34336579.84	0.2704	0.2113
Mercury	89300-10-08 12:15 G	34337495.91	34337496.01	34337496.11	0.2628	0.1344
Mercury	89307-10-02 11:03 G	34340045.92	34340045.96	34340045.99	0.2630	0.2449
Mercury	89311-04-09 11:17 G	34341330.82	34341330.97	34341331.11	0.2705	0.0652
Mercury	89320-10-04 04:48 G	34344796.60	34344796.70	34344796.80	0.2629	0.1116
Mercury	89333-10-06 23:03 G	34349547.34	34349547.46	34349547.57	0.2628	0.0264
Mercury	89344-04-06 12:15 G	34353381.89	34353382.01	34353382.13	0.2704	0.1596
Mercury	89346-10-09 17:03 G	34354298.13	34354298.21	34354298.30	0.2627	0.1622
Venus	89349-01-13 21:51 G	34355125.35	34355125.41	34355125.46	0.2653	0.2457

Mercury	89353-10-02 15:51 G	34356848.10	34356848.16	34356848.22	0.2629	0.2183
Venus	89357-01-11 14:53 G	34358044.97	34358045.12	34358045.27	0.2651	0.0641
Mercury	89357-04-09 17:31 G	34358133.09	34358133.23	34358133.36	0.2705	0.1149
Mercury	89366-10-05 09:36 G	34361598.80	34361598.90	34361599.01	0.2629	0.0853
Mercury	89379-10-08 03:51 G	34366349.55	34366349.66	34366349.77	0.2628	0.0515
Mercury	89390-04-07 18:43 G	34370184.14	34370184.28	34370184.42	0.2704	0.1079
Mercury	89392-10-09 22:05 G	34371100.34	34371100.42	34371100.50	0.2627	0.1902
Mercury	89399-10-03 20:39 G	34373650.28	34373650.36	34373650.43	0.2629	0.1920
Mercury	89403-04-11 23:46 G	34374935.38	34374935.49	34374935.61	0.2705	0.1657
Mercury	89412-10-06 14:39 G	34378401.00	34378401.11	34378401.22	0.2629	0.0578
Mercury	89425-10-09 08:39 G	34383151.76	34383151.86	34383151.97	0.2628	0.0797
Mercury	89436-04-09 00:58 G	34386986.40	34386986.54	34386986.69	0.2704	0.0570
Mercury	89438-10-12 02:53 G	34387902.56	34387902.62	34387902.69	0.2627	0.2182
Mercury	89445-10-05 01:27 G	34390452.47	34390452.56	34390452.65	0.2629	0.1653
Mercury	89449-04-12 06:15 G	34391737.67	34391737.76	34391737.84	0.2705	0.2158
Mercury	89458-10-07 19:27 G	34395203.20	34395203.31	34395203.42	0.2628	0.0306
Mercury	89471-10-10 13:41 G	34399953.96	34399954.07	34399954.17	0.2628	0.1069
Mercury	89482-04-10 07:27 G	34403788.66	34403788.81	34403788.96	0.2704	0.0060
Mercury	89484-10-12 07:55 G	34404704.79	34404704.83	34404704.86	0.2627	0.2466
Venus	89486-07-11 06:00 G	34405341.60	34405341.75	34405341.91	0.2682	0.0652
Mercury	89491-10-06 06:15 G	34407254.67	34407254.76	34407254.86	0.2629	0.1386
Mercury	89495-04-13 12:29 G	34408540.00	34408540.02	34408540.04	0.2705	0.2658
Mercury	89504-10-09 00:15 G	34412005.40	34412005.51	34412005.63	0.2628	0.0115
Mercury	89515-04-09 08:24 G	34415839.78	34415839.85	34415839.93	0.2704	0.2320
Mercury	89517-10-11 18:29 G	34416756.17	34416756.27	34416756.37	0.2628	0.1346
Mercury	89524-10-04 17:17 G	34419306.18	34419306.22	34419306.25	0.2630	0.2454
Mercury	89528-04-11 13:55 G	34420590.93	34420591.08	34420591.22	0.2705	0.0469
Mercury	89537-10-07 11:03 G	34424056.86	34424056.96	34424057.07	0.2629	0.1123
Mercury	89550-10-10 05:17 G	34428807.61	34428807.72	34428807.83	0.2628	0.0243
Mercury	89561-04-09 14:53 G	34432642.01	34432642.12	34432642.23	0.2704	0.1793

Mercury	89563-10-12 23:31 G	34433558.39	34433558.48	34433558.56	0.2628	0.1629
Mercury	89570-10-05 22:05 G	34436108.36	34436108.42	34436108.48	0.2630	0.2191
Mercury	89574-04-12 20:24 G	34437393.21	34437393.35	34437393.48	0.2705	0.0989
Mercury	89583-10-08 16:05 G	34440859.06	34440859.17	34440859.27	0.2629	0.0853
Mercury	89596-10-10 10:05 G	34445609.81	34445609.92	34445610.03	0.2628	0.0519
Venus	89600-01-14 17:46 G	34446801.09	34446801.24	34446801.40	0.2650	0.0425
Mercury	89607-04-10 21:22 G	34449444.26	34449444.39	34449444.52	0.2704	0.1268
Mercury	89609-10-13 04:19 G	34450360.60	34450360.68	34450360.76	0.2628	0.1903
Mercury	89616-10-06 02:53 G	34452910.55	34452910.62	34452910.70	0.2630	0.1924
Mercury	89620-04-13 02:39 G	34454195.49	34454195.61	34454195.73	0.2705	0.1497
Mercury	89629-10-08 20:53 G	34457661.26	34457661.37	34457661.48	0.2629	0.0579
Mercury	89642-10-11 14:53 G	34462412.02	34462412.12	34462412.23	0.2628	0.0792
Mercury	89653-04-11 03:51 G	34466246.51	34466246.66	34466246.80	0.2704	0.0740
Mercury	89655-10-14 09:07 G	34467162.82	34467162.88	34467162.94	0.2628	0.2184
Mercury	89662-10-07 07:41 G	34469712.74	34469712.82	34469712.91	0.2630	0.1656
Mercury	89666-04-14 08:53 G	34470997.78	34470997.87	34470997.97	0.2705	0.2008
Mercury	89675-10-10 01:41 G	34474463.46	34474463.57	34474463.69	0.2629	0.0323
Mercury	89688-10-11 19:55 G	34479214.22	34479214.33	34479214.43	0.2628	0.1070
Mercury	89699-04-12 10:05 G	34483048.77	34483048.92	34483049.07	0.2704	0.0237
Mercury	89701-10-15 13:55 G	34483965.05	34483965.08	34483965.12	0.2627	0.2463
Mercury	89708-10-08 12:43 G	34486514.93	34486515.03	34486515.12	0.2629	0.1389
Mercury	89712-04-15 15:22 G	34487800.09	34487800.14	34487800.19	0.2705	0.2514
Mercury	89721-10-11 06:43 G	34491265.66	34491265.78	34491265.89	0.2629	0.0059
Venus	89729-07-13 05:31 G	34494097.57	34494097.73	34494097.88	0.2683	0.0688
Mercury	89732-04-10 11:03 G	34495099.91	34495099.96	34495100.01	0.2703	0.2528
Mercury	89734-10-14 00:43 G	34496016.43	34496016.53	34496016.63	0.2628	0.1348
Mercury	89741-10-06 23:31 G	34498566.45	34498566.48	34498566.52	0.2630	0.2457
Mercury	89745-04-13 16:34 G	34499851.04	34499851.19	34499851.34	0.2704	0.0303
Mercury	89754-10-09 17:31 G	34503317.13	34503317.23	34503317.33	0.2629	0.1118
Mercury	89767-10-12 11:31 G	34508067.87	34508067.98	34508068.09	0.2629	0.0245

Mercury	89778-04-11 17:31 G	34511902.13	34511902.23	34511902.33	0.2703	0.1996
Mercury	89780-10-14 05:31 G	34512818.65	34512818.73	34512818.82	0.2628	0.1630
Mercury	89787-10-08 04:19 G	34515368.62	34515368.68	34515368.75	0.2630	0.2194
Mercury	89791-04-14 23:03 G	34516653.31	34516653.46	34516653.60	0.2704	0.0813
Mercury	89800-10-10 22:19 G	34520119.33	34520119.43	34520119.54	0.2629	0.0849
Mercury	89813-10-13 16:19 G	34524870.07	34524870.18	34524870.29	0.2628	0.0518
Mercury	89824-04-13 00:00 G	34528704.37	34528704.50	34528704.63	0.2704	0.1460
Mercury	89826-10-16 10:34 G	34529620.86	34529620.94	34529621.02	0.2628	0.1907
Mercury	89833-10-09 09:22 G	34532170.81	34532170.89	34532170.96	0.2630	0.1925
Mercury	89837-04-16 05:17 G	34533455.59	34533455.72	34533455.85	0.2704	0.1331
Venus	89843-01-16 20:53 G	34535557.22	34535557.37	34535557.53	0.2649	0.0197
Mercury	89846-10-12 03:07 G	34536921.52	34536921.63	34536921.75	0.2629	0.0585
Mercury	89859-10-14 21:22 G	34541672.28	34541672.39	34541672.49	0.2628	0.0800
Mercury	89870-04-14 06:29 G	34545506.63	34545506.77	34545506.91	0.2704	0.0933
Mercury	89872-10-16 15:22 G	34546423.08	34546423.14	34546423.20	0.2628	0.2187
Mercury	89879-10-10 14:10 G	34548973.00	34548973.09	34548973.18	0.2630	0.1659
Mercury	89883-04-17 11:46 G	34550257.88	34550257.99	34550258.10	0.2705	0.1846
Mercury	89892-10-12 08:10 G	34553723.72	34553723.84	34553723.95	0.2629	0.0318
Mercury	89905-10-16 02:10 G	34558474.48	34558474.59	34558474.69	0.2628	0.1072
Mercury	89916-04-15 12:58 G	34562308.89	34562309.04	34562309.18	0.2704	0.0408
Mercury	89918-10-18 20:24 G	34563225.31	34563225.35	34563225.38	0.2628	0.2471
Mercury	89925-10-11 18:58 G	34565775.20	34565775.29	34565775.39	0.2630	0.1389
Mercury	89929-04-18 18:15 G	34567060.19	34567060.26	34567060.33	0.2705	0.2367
Mercury	89938-10-14 12:58 G	34570525.92	34570526.04	34570526.15	0.2629	0.0058
Mercury	89951-10-17 06:58 G	34575276.69	34575276.79	34575276.89	0.2628	0.1349
Mercury	89958-10-10 06:00 G	34577826.71	34577826.75	34577826.79	0.2630	0.2455
Mercury	89962-04-16 19:12 G	34579111.15	34579111.30	34579111.45	0.2704	0.0126
Mercury	89971-10-12 23:46 G	34582577.39	34582577.49	34582577.59	0.2630	0.1121
Venus	89972-07-15 05:03 G	34582853.55	34582853.71	34582853.86	0.2684	0.0718
Mercury	89984-10-14 17:46 G	34587328.13	34587328.24	34587328.35	0.2629	0.0243

Mercury	89995-04-14 20:10 G	34591162.25	34591162.34	34591162.42	0.2703	0.2191
Mercury	89997-10-17 12:00 G	34592078.91	34592079.00	34592079.08	0.2628	0.1628

91ST MILLENNIUM CE

This is a list of transits visible from Earth in the 91st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	90004-10-10 10:48 G		34594628.89	34594628.95	34594629.01	0.2630	0.2190	
Mercury	90008-04-17 01:41 G		34595913.43	34595913.57	34595913.72	0.2704	0.0652	
Mercury	90017-10-13 04:34 G		34599379.59	34599379.69	34599379.80	0.2629	0.0851	
Mercury	90030-10-15 22:34 G		34604130.33	34604130.44	34604130.56	0.2629	0.0532	
Mercury	90041-04-15 02:39 G		34607964.49	34607964.61	34607964.72	0.2703	0.1657	
Mercury	90043-10-18 16:48 G		34608881.12	34608881.20	34608881.28	0.2628	0.1910	
Mercury	90050-10-11 15:36 G		34611431.08	34611431.15	34611431.23	0.2630	0.1925	
Mercury	90054-04-18 08:10 G		34612715.70	34612715.84	34612715.97	0.2704	0.1168	
Mercury	90063-10-14 09:36 G		34616181.79	34616181.90	34616182.01	0.2629	0.0581	
Mercury	90076-10-16 03:36 G		34620932.54	34620932.65	34620932.76	0.2629	0.0800	
Venus	90086-01-18 00:00 G		34624313.35	34624313.50	34624313.66	0.2648	0.0099	
Mercury	90087-04-16 08:53 G		34624766.74	34624766.87	34624767.01	0.2703	0.1130	
Mercury	90089-10-18 21:36 G		34625683.34	34625683.40	34625683.47	0.2628	0.2196	
Mercury	90096-10-11 20:24 G		34628233.27	34628233.35	34628233.44	0.2630	0.1659	
Mercury	90100-04-19 14:39 G		34629517.99	34629518.11	34629518.22	0.2704	0.1694	
Mercury	90109-10-15 14:24 G		34632983.99	34632984.10	34632984.21	0.2629	0.0304	
Mercury	90122-10-18 08:24 G		34637734.75	34637734.85	34637734.96	0.2628	0.1076	

Mercury	90133-04-17 15:22 G	34641569.00	34641569.14	34641569.29	0.2703	0.0598
Mercury	90135-10-21 02:39 G	34642485.57	34642485.61	34642485.64	0.2628	0.2475
Mercury	90142-10-14 01:12 G	34645035.46	34645035.55	34645035.65	0.2630	0.1393
Mercury	90146-04-20 20:53 G	34646320.28	34646320.37	34646320.45	0.2704	0.2201
Mercury	90155-10-16 19:12 G	34649786.19	34649786.30	34649786.42	0.2629	0.0060
Mercury	90168-10-18 13:12 G	34654536.96	34654537.05	34654537.15	0.2628	0.1357
Mercury	90175-10-12 12:15 G	34657086.98	34657087.01	34657087.05	0.2631	0.2464
Mercury	90179-04-18 22:05 G	34658371.26	34658371.42	34658371.57	0.2704	0.0098
Mercury	90188-10-14 06:15 G	34661837.65	34661837.76	34661837.86	0.2630	0.1122
Mercury	90201-10-18 00:15 G	34666588.39	34666588.51	34666588.62	0.2629	0.0264
Mercury	90212-04-16 22:34 G	34670422.38	34670422.44	34670422.51	0.2703	0.2389
Mercury	90214-10-20 18:15 G	34671339.17	34671339.26	34671339.35	0.2628	0.1633
Venus	90215-07-18 04:34 G	34671609.53	34671609.69	34671609.84	0.2685	0.0762
Mercury	90221-10-13 17:03 G	34673889.15	34673889.21	34673889.27	0.2630	0.2196
Mercury	90225-04-20 04:19 G	34675173.54	34675173.68	34675173.83	0.2704	0.0477
Mercury	90234-10-16 11:03 G	34678639.85	34678639.96	34678640.07	0.2630	0.0851
Mercury	90247-10-19 05:03 G	34683390.60	34683390.71	34683390.82	0.2629	0.0523
Mercury	90258-04-18 05:03 G	34687224.60	34687224.71	34687224.82	0.2703	0.1858
Mercury	90260-10-20 23:03 G	34688141.38	34688141.46	34688141.54	0.2628	0.1914
Mercury	90267-10-14 22:05 G	34690691.34	34690691.42	34690691.49	0.2630	0.1930
Mercury	90271-04-21 10:48 G	34691975.81	34691975.95	34691976.09	0.2704	0.1006
Mercury	90280-10-16 15:51 G	34695442.05	34695442.16	34695442.27	0.2630	0.0575
Mercury	90293-10-19 09:51 G	34700192.80	34700192.91	34700193.02	0.2629	0.0798
Mercury	90304-04-19 11:31 G	34704026.85	34704026.98	34704027.12	0.2703	0.1315
Mercury	90306-10-23 03:51 G	34704943.60	34704943.66	34704943.72	0.2628	0.2195
Mercury	90313-10-16 02:53 G	34707493.53	34707493.62	34707493.70	0.2630	0.1657
Mercury	90317-04-22 17:17 G	34708778.09	34708778.22	34708778.34	0.2704	0.1523
Mercury	90326-10-18 20:39 G	34712244.25	34712244.36	34712244.48	0.2629	0.0319
Venus	90329-01-21 03:07 G	34713069.47	34713069.63	34713069.79	0.2648	0.0284
Mercury	90339-10-21 14:39 G	34716995.01	34716995.11	34716995.22	0.2629	0.1080

Mercury	90350-04-20 18:00 G	34720829.11	34720829.25	34720829.40	0.2703	0.0778
Mercury	90352-10-23 08:53 G	34721745.83	34721745.87	34721745.90	0.2628	0.2477
Mercury	90359-10-17 07:41 G	34724295.73	34724295.82	34724295.92	0.2630	0.1387
Mercury	90363-04-23 23:31 G	34725580.39	34725580.48	34725580.58	0.2704	0.2054
Mercury	90372-10-19 01:41 G	34729046.45	34729046.57	34729046.68	0.2629	0.0066
Mercury	90385-10-21 19:41 G	34733797.22	34733797.32	34733797.41	0.2629	0.1359
Mercury	90392-10-14 18:43 G	34736347.24	34736347.28	34736347.32	0.2631	0.2462
Mercury	90396-04-21 00:29 G	34737631.37	34737631.52	34737631.67	0.2703	0.0246
Mercury	90405-10-17 12:29 G	34741097.92	34741098.02	34741098.12	0.2630	0.1120
Mercury	90409-04-24 06:00 G	34742382.71	34742382.75	34742382.79	0.2704	0.2569
Mercury	90418-10-20 06:29 G	34745848.66	34745848.77	34745848.88	0.2629	0.0249
Mercury	90429-04-19 00:58 G	34749682.51	34749682.54	34749682.58	0.2702	0.2613
Mercury	90431-10-23 00:29 G	34750599.43	34750599.52	34750599.61	0.2629	0.1640
Mercury	90438-10-15 23:31 G	34753149.42	34753149.48	34753149.54	0.2631	0.2198
Mercury	90442-04-22 06:58 G	34754433.64	34754433.79	34754433.94	0.2703	0.0288
Mercury	90451-10-18 17:17 G	34757900.12	34757900.22	34757900.33	0.2630	0.0852
Venus	90458-07-19 04:05 G	34760365.51	34760365.67	34760365.82	0.2686	0.0792
Mercury	90464-10-20 11:17 G	34762650.86	34762650.97	34762651.08	0.2629	0.0526
Mercury	90475-04-20 07:41 G	34766484.72	34766484.82	34766484.91	0.2702	0.2057
Mercury	90477-10-23 05:17 G	34767401.65	34767401.72	34767401.80	0.2628	0.1918
Mercury	90484-10-16 04:19 G	34769951.61	34769951.68	34769951.76	0.2631	0.1928
Mercury	90488-04-22 13:26 G	34771235.91	34771236.06	34771236.20	0.2704	0.0823
Mercury	90497-10-18 22:19 G	34774702.32	34774702.43	34774702.54	0.2630	0.0582
Mercury	90510-10-22 16:05 G	34779453.06	34779453.17	34779453.28	0.2629	0.0803
Mercury	90521-04-21 14:10 G	34783286.96	34783287.09	34783287.21	0.2703	0.1509
Mercury	90523-10-25 10:19 G	34784203.87	34784203.93	34784203.99	0.2628	0.2202
Mercury	90530-10-18 09:07 G	34786753.80	34786753.88	34786753.97	0.2631	0.1663
Mercury	90534-04-24 19:55 G	34788038.20	34788038.33	34788038.46	0.2704	0.1364
Mercury	90543-10-21 03:07 G	34791504.52	34791504.63	34791504.74	0.2630	0.0304
Mercury	90556-10-22 20:53 G	34796255.27	34796255.37	34796255.48	0.2629	0.1085

Mercury	90567-04-22 20:38 G	34800089.22	34800089.36	34800089.50	0.2703	0.0970
Mercury	90569-10-25 15:07 G	34801006.10	34801006.13	34801006.16	0.2628	0.2482
Venus	90572-01-23 06:14 G	34801825.60	34801825.76	34801825.91	0.2646	0.0527
Mercury	90576-10-18 14:10 G	34803555.99	34803556.09	34803556.18	0.2630	0.1388
Venus	90580-01-20 23:02 G	34804745.44	34804745.46	34804745.48	0.2645	0.2611
Mercury	90580-04-25 02:24 G	34804840.49	34804840.60	34804840.70	0.2704	0.1889
Mercury	90589-10-21 07:55 G	34808306.72	34808306.83	34808306.94	0.2630	0.0031
Mercury	90602-10-25 01:55 G	34813057.48	34813057.58	34813057.67	0.2629	0.1361
Mercury	90609-10-18 01:12 G	34815607.51	34815607.55	34815607.58	0.2631	0.2464
Mercury	90613-04-24 03:07 G	34816891.48	34816891.63	34816891.78	0.2703	0.0438
Mercury	90622-10-20 18:58 G	34820358.19	34820358.29	34820358.39	0.2630	0.1120
Mercury	90626-04-27 08:38 G	34821642.80	34821642.86	34821642.93	0.2704	0.2421
Mercury	90635-10-23 12:43 G	34825108.92	34825109.03	34825109.14	0.2630	0.0255
Mercury	90648-10-25 06:43 G	34829859.69	34829859.78	34829859.87	0.2629	0.1641
Mercury	90655-10-19 06:00 G	34832409.69	34832409.75	34832409.81	0.2631	0.2194
Mercury	90659-04-25 09:36 G	34833693.75	34833693.90	34833694.05	0.2703	0.0126
Mercury	90668-10-20 23:46 G	34837160.38	34837160.49	34837160.59	0.2630	0.0845
Mercury	90681-10-23 17:31 G	34841911.12	34841911.23	34841911.34	0.2629	0.0533
Mercury	90692-04-22 10:05 G	34845744.84	34845744.92	34845745.00	0.2702	0.2271
Mercury	90694-10-26 11:46 G	34846661.91	34846661.99	34846662.06	0.2629	0.1927
Venus	90701-07-22 03:36 G	34849121.50	34849121.65	34849121.80	0.2687	0.0830
Mercury	90701-10-20 10:48 G	34849211.87	34849211.95	34849212.02	0.2631	0.1928
Mercury	90705-04-26 16:05 G	34850496.02	34850496.17	34850496.32	0.2703	0.0652
Mercury	90714-10-23 04:34 G	34853962.58	34853962.69	34853962.80	0.2630	0.0570
Mercury	90727-10-25 22:34 G	34858713.33	34858713.44	34858713.54	0.2629	0.0811
Mercury	90738-04-24 16:34 G	34862547.07	34862547.19	34862547.30	0.2702	0.1721
Mercury	90740-10-27 16:34 G	34863464.13	34863464.19	34863464.25	0.2629	0.2206
Mercury	90747-10-21 15:36 G	34866014.06	34866014.15	34866014.24	0.2631	0.1657
Mercury	90751-04-27 22:34 G	34867298.30	34867298.44	34867298.57	0.2703	0.1184
Mercury	90760-10-23 09:22 G	34870764.78	34870764.89	34870765.00	0.2630	0.0300

Mercury	90773-10-26 03:22 G	34875515.54	34875515.64	34875515.74	0.2629	0.1086
Mercury	90784-04-24 23:02 G	34879349.32	34879349.46	34879349.60	0.2703	0.1172
Mercury	90786-10-28 21:22 G	34880266.36	34880266.39	34880266.42	0.2629	0.2492
Mercury	90793-10-21 20:24 G	34882816.25	34882816.35	34882816.44	0.2631	0.1392
Mercury	90797-04-28 05:02 G	34884100.59	34884100.71	34884100.82	0.2703	0.1724
Mercury	90806-10-24 14:10 G	34887566.98	34887567.09	34887567.21	0.2630	0.0076
Venus	90815-01-25 09:07 G	34890581.73	34890581.88	34890582.03	0.2646	0.0758
Mercury	90819-10-27 08:10 G	34892317.75	34892317.84	34892317.94	0.2629	0.1367
Venus	90823-01-23 01:55 G	34893501.51	34893501.58	34893501.64	0.2644	0.2385
Mercury	90826-10-20 07:26 G	34894867.78	34894867.81	34894867.85	0.2631	0.2465
Mercury	90830-04-26 05:31 G	34896151.59	34896151.73	34896151.88	0.2703	0.0620
Mercury	90839-10-23 01:12 G	34899618.45	34899618.55	34899618.65	0.2631	0.1117
Mercury	90843-04-29 11:17 G	34900902.89	34900902.97	34900903.05	0.2704	0.2254
Mercury	90852-10-24 19:12 G	34904369.18	34904369.30	34904369.41	0.2630	0.0269
Mercury	90865-10-27 12:58 G	34909119.96	34909120.04	34909120.13	0.2629	0.1647
Mercury	90872-10-20 12:14 G	34911669.95	34911670.01	34911670.07	0.2631	0.2197
Mercury	90876-04-26 12:14 G	34912953.85	34912954.01	34912954.16	0.2703	0.0095
Mercury	90885-10-23 06:00 G	34916420.65	34916420.75	34916420.86	0.2631	0.0846
Mercury	90898-10-26 00:00 G	34921171.39	34921171.50	34921171.61	0.2630	0.0533
Mercury	90909-04-25 12:29 G	34925004.96	34925005.02	34925005.08	0.2702	0.2476
Mercury	90911-10-29 18:00 G	34925922.17	34925922.25	34925922.32	0.2629	0.1926
Mercury	90918-10-22 17:02 G	34928472.14	34928472.21	34928472.29	0.2631	0.1928
Mercury	90922-04-28 18:29 G	34929756.12	34929756.27	34929756.42	0.2703	0.0472
Mercury	90931-10-25 11:02 G	34933222.85	34933222.96	34933223.07	0.2630	0.0578
Venus	90944-07-23 03:07 G	34937877.48	34937877.63	34937877.78	0.2688	0.0883
Mercury	90944-10-27 04:48 G	34937973.59	34937973.70	34937973.81	0.2630	0.0810
Mercury	90955-04-26 18:58 G	34941807.18	34941807.29	34941807.40	0.2702	0.1923
Mercury	90957-10-29 22:48 G	34942724.39	34942724.45	34942724.51	0.2629	0.2211
Mercury	90964-10-22 21:50 G	34945274.33	34945274.41	34945274.50	0.2631	0.1662
Mercury	90968-04-29 00:58 G	34946558.40	34946558.54	34946558.68	0.2703	0.1015

Mercury 90977-10-25 15:50 G 34950025.05 34950025.16 34950025.27 0.2630 0.0301

Mercury 90990-10-28 09:36 G 34954775.80 34954775.90 34954776.01 0.2630 0.1095

92ND MILLENNIUM CE

This is a list of transits visible from Earth in the 92nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	91001-04-28 01:26	G	34958609.43	34958609.56	34958609.69	0.2702	0.1372	
Mercury	91003-11-01 03:36	G	34959526.62	34959526.65	34959526.68	0.2629	0.2493	
Mercury	91010-10-25 02:53	G	34962076.52	34962076.62	34962076.71	0.2631	0.1389	
Mercury	91014-05-01 07:26	G	34963360.69	34963360.81	34963360.93	0.2703	0.1549	
Mercury	91023-10-27 20:38	G	34966827.25	34966827.36	34966827.47	0.2630	0.0020	
Mercury	91036-10-29 14:24	G	34971578.01	34971578.10	34971578.20	0.2629	0.1371	
Mercury	91043-10-23 13:55	G	34974128.04	34974128.08	34974128.11	0.2632	0.2468	
Mercury	91047-04-29 08:10	G	34975411.69	34975411.84	34975411.98	0.2702	0.0822	
Mercury	91056-10-25 07:41	G	34978878.72	34978878.82	34978878.92	0.2631	0.1115	
Venus	91058-01-27 12:00	G	34979337.85	34979338.00	34979338.15	0.2645	0.0980	
Mercury	91060-05-01 13:55	G	34980162.99	34980163.08	34980163.17	0.2703	0.2085	
Venus	91066-01-25 04:48	G	34982257.61	34982257.70	34982257.79	0.2643	0.2148	
Mercury	91069-10-28 01:26	G	34983629.45	34983629.56	34983629.67	0.2630	0.0261	
Mercury	91082-10-30 19:26	G	34988380.22	34988380.31	34988380.39	0.2629	0.1652	
Mercury	91089-10-23 18:43	G	34990930.22	34990930.28	34990930.34	0.2632	0.2201	
Mercury	91093-04-29 14:24	G	34992213.95	34992214.10	34992214.26	0.2702	0.0279	
Mercury	91102-10-27 12:29	G	34995680.91	34995681.02	34995681.13	0.2631	0.0842	

Mercury	91106-05-03 20:24 G	34996965.31	34996965.35	34996965.38	0.2703	0.2618
Mercury	91115-10-30 06:14 G	35000431.65	35000431.76	35000431.87	0.2630	0.0536
Mercury	91126-04-28 14:53 G	35004265.11	35004265.12	35004265.13	0.2701	0.2691
Mercury	91128-11-01 00:14 G	35005182.43	35005182.51	35005182.58	0.2629	0.1933
Mercury	91135-10-25 23:31 G	35007732.41	35007732.48	35007732.55	0.2631	0.1930
Mercury	91139-05-01 21:07 G	35009016.23	35009016.38	35009016.53	0.2703	0.0288
Mercury	91148-10-27 17:17 G	35012483.11	35012483.22	35012483.33	0.2631	0.0571
Mercury	91161-10-30 11:02 G	35017233.86	35017233.96	35017234.07	0.2630	0.0815
Mercury	91172-04-28 21:22 G	35021067.30	35021067.39	35021067.48	0.2701	0.2133
Mercury	91174-11-02 05:02 G	35021984.65	35021984.71	35021984.77	0.2629	0.2215
Mercury	91181-10-26 04:19 G	35024534.60	35024534.68	35024534.77	0.2631	0.1658
Mercury	91185-05-02 03:36 G	35025818.50	35025818.65	35025818.79	0.2703	0.0831
Venus	91187-07-26 02:38 G	35026633.46	35026633.61	35026633.76	0.2689	0.0915
Mercury	91194-10-28 22:05 G	35029285.31	35029285.42	35029285.53	0.2631	0.0296
Mercury	91207-10-31 15:50 G	35034036.06	35034036.16	35034036.27	0.2630	0.1093
Mercury	91218-04-30 03:50 G	35037869.54	35037869.66	35037869.79	0.2702	0.1574
Mercury	91220-11-02 09:50 G	35038786.88	35038786.91	35038786.95	0.2629	0.2500
Mercury	91227-10-27 09:07 G	35041336.79	35041336.88	35041336.98	0.2631	0.1386
Mercury	91231-05-03 10:05 G	35042620.79	35042620.92	35042621.05	0.2703	0.1377
Mercury	91240-10-29 02:53 G	35046087.51	35046087.62	35046087.74	0.2630	0.0067
Mercury	91253-10-31 20:53 G	35050838.27	35050838.37	35050838.46	0.2630	0.1376
Mercury	91260-10-24 20:24 G	35053388.31	35053388.35	35053388.38	0.2632	0.2468
Mercury	91264-04-30 10:19 G	35054671.79	35054671.93	35054672.07	0.2702	0.1021
Mercury	91273-10-27 13:55 G	35058138.98	35058139.08	35058139.19	0.2631	0.1116
Mercury	91277-05-03 16:34 G	35059423.08	35059423.19	35059423.29	0.2703	0.1919
Mercury	91286-10-30 07:41 G	35062889.71	35062889.82	35062889.94	0.2630	0.0277
Mercury	91299-11-02 01:41 G	35067640.48	35067640.57	35067640.66	0.2630	0.1657
Venus	91301-01-29 14:53 G	35068093.98	35068094.12	35068094.26	0.2644	0.1223
Mercury	91306-10-27 01:12 G	35070190.49	35070190.55	35070190.61	0.2632	0.2199
Venus	91309-01-27 07:41 G	35071013.71	35071013.82	35071013.92	0.2642	0.1941

Mercury	91310-05-02 17:02 G	35071474.05	35071474.21	35071474.36	0.2702	0.0474
Mercury	91319-10-29 18:43 G	35074941.18	35074941.28	35074941.39	0.2631	0.0846
Mercury	91323-05-05 23:02 G	35076225.40	35076225.46	35076225.52	0.2703	0.2464
Mercury	91332-10-31 12:43 G	35079691.92	35079692.03	35079692.14	0.2630	0.0548
Mercury	91345-11-03 06:29 G	35084442.70	35084442.77	35084442.85	0.2629	0.1943
Mercury	91352-10-27 06:00 G	35086992.67	35086992.75	35086992.82	0.2632	0.1928
Mercury	91356-05-02 23:31 G	35088276.32	35088276.48	35088276.63	0.2702	0.0103
Mercury	91365-10-29 23:46 G	35091743.38	35091743.49	35091743.59	0.2631	0.0577
Mercury	91378-11-01 17:31 G	35096494.12	35096494.23	35096494.33	0.2630	0.0818
Mercury	91389-04-30 23:31 G	35100327.41	35100327.48	35100327.56	0.2701	0.2353
Mercury	91391-11-04 11:31 G	35101244.92	35101244.98	35101245.03	0.2629	0.2224
Mercury	91398-10-28 10:48 G	35103794.86	35103794.95	35103795.03	0.2632	0.1659
Mercury	91402-05-05 06:00 G	35105078.60	35105078.75	35105078.90	0.2702	0.0646
Mercury	91411-11-01 04:34 G	35108545.57	35108545.69	35108545.80	0.2631	0.0306
Mercury	91424-11-02 22:19 G	35113296.33	35113296.43	35113296.53	0.2630	0.1100
Venus	91430-07-28 02:24 G	35115389.45	35115389.60	35115389.74	0.2690	0.0973
Mercury	91435-05-03 06:14 G	35117129.65	35117129.76	35117129.88	0.2701	0.1780
Mercury	91437-11-05 16:19 G	35118047.15	35118047.18	35118047.21	0.2629	0.2507
Mercury	91444-10-29 15:36 G	35120597.05	35120597.15	35120597.24	0.2632	0.1388
Mercury	91448-05-05 12:29 G	35121880.89	35121881.02	35121881.16	0.2702	0.1197
Mercury	91457-11-01 09:22 G	35125347.77	35125347.89	35125348.00	0.2631	0.0064
Mercury	91470-11-04 03:07 G	35130098.54	35130098.63	35130098.73	0.2630	0.1382
Mercury	91477-10-28 02:38 G	35132648.58	35132648.61	35132648.65	0.2632	0.2470
Mercury	91481-05-03 12:43 G	35133931.90	35133932.03	35133932.17	0.2701	0.1223
Mercury	91490-10-30 20:24 G	35137399.25	35137399.35	35137399.45	0.2631	0.1113
Mercury	91494-05-06 19:12 G	35138683.18	35138683.30	35138683.41	0.2703	0.1756
Mercury	91503-11-03 14:10 G	35142149.98	35142150.09	35142150.20	0.2631	0.0263
Mercury	91516-11-05 07:55 G	35146900.75	35146900.83	35146900.92	0.2630	0.1665
Mercury	91523-10-30 07:26 G	35149450.75	35149450.81	35149450.87	0.2632	0.2196
Mercury	91527-05-05 19:26 G	35150734.16	35150734.31	35150734.46	0.2702	0.0664

Mercury	91536-11-01 01:12 G	35154201.44	35154201.55	35154201.66	0.2631	0.0837
Mercury	91540-05-08 01:26 G	35155485.49	35155485.56	35155485.64	0.2703	0.2296
Venus	91544-02-01 17:46 G	35156850.11	35156850.24	35156850.37	0.2643	0.1439
Mercury	91549-11-03 18:58 G	35158952.18	35158952.29	35158952.40	0.2631	0.0547
Venus	91552-01-30 10:34 G	35159769.82	35159769.94	35159770.06	0.2642	0.1693
Mercury	91562-11-06 12:58 G	35163702.96	35163703.04	35163703.11	0.2630	0.1944
Mercury	91569-10-30 12:14 G	35166252.94	35166253.01	35166253.09	0.2632	0.1930
Mercury	91573-05-06 01:55 G	35167536.43	35167536.58	35167536.73	0.2702	0.0096
Mercury	91582-11-02 06:00 G	35171003.64	35171003.75	35171003.86	0.2631	0.0560
Mercury	91595-11-04 23:46 G	35175754.39	35175754.49	35175754.60	0.2630	0.0832
Mercury	91606-05-04 01:55 G	35179587.54	35179587.58	35179587.63	0.2701	0.2564
Mercury	91608-11-06 17:46 G	35180505.18	35180505.24	35180505.30	0.2630	0.2230
Mercury	91615-10-31 17:02 G	35183055.13	35183055.21	35183055.30	0.2632	0.1657
Mercury	91619-05-07 08:24 G	35184338.70	35184338.85	35184339.00	0.2702	0.0459
Mercury	91628-11-02 10:48 G	35187805.84	35187805.95	35187806.06	0.2631	0.0296
Mercury	91641-11-05 04:48 G	35192556.59	35192556.70	35192556.80	0.2630	0.1111
Mercury	91652-05-04 08:24 G	35196389.75	35196389.85	35196389.96	0.2701	0.2006
Mercury	91654-11-07 22:34 G	35197307.41	35197307.44	35197307.47	0.2630	0.2516
Mercury	91661-10-31 21:50 G	35199857.32	35199857.41	35199857.51	0.2632	0.1388
Mercury	91665-05-07 14:53 G	35201140.98	35201141.12	35201141.27	0.2702	0.1019
Venus	91665-07-31 12:29 G	35201226.02	35201226.02	35201226.03	0.2690	0.2685
Venus	91673-07-29 02:10 G	35204145.44	35204145.59	35204145.74	0.2691	0.0997
Mercury	91674-11-03 15:36 G	35204608.04	35204608.15	35204608.27	0.2631	0.0110
Mercury	91687-11-06 09:36 G	35209358.80	35209358.90	35209358.99	0.2630	0.1389
Mercury	91694-10-30 09:07 G	35211908.84	35211908.88	35211908.91	0.2633	0.2467
Mercury	91698-05-05 15:07 G	35213192.00	35213192.13	35213192.26	0.2701	0.1428
Mercury	91707-11-03 02:53 G	35216659.52	35216659.62	35216659.72	0.2632	0.1112
Mercury	91711-05-09 21:22 G	35217943.27	35217943.39	35217943.52	0.2702	0.1565
Mercury	91720-11-04 20:38 G	35221410.24	35221410.36	35221410.47	0.2631	0.0283
Mercury	91733-11-07 14:24 G	35226161.01	35226161.10	35226161.18	0.2630	0.1669

Mercury	91740-10-31 13:55 G	35228711.02	35228711.08	35228711.14	0.2633	0.2200
Mercury	91744-05-06 21:50 G	35229994.26	35229994.41	35229994.55	0.2701	0.0854
Mercury	91753-11-03 07:41 G	35233461.71	35233461.82	35233461.92	0.2632	0.0835
Mercury	91757-05-10 04:05 G	35234745.57	35234745.67	35234745.76	0.2702	0.2128
Mercury	91766-11-06 01:26 G	35238212.45	35238212.56	35238212.67	0.2631	0.0556
Mercury	91779-11-08 19:12 G	35242963.23	35242963.30	35242963.37	0.2630	0.1952
Mercury	91786-11-01 18:43 G	35245513.21	35245513.28	35245513.36	0.2632	0.1925
Venus	91787-02-02 20:53 G	35245606.25	35245606.37	35245606.49	0.2642	0.1685
Mercury	91790-05-08 04:19 G	35246796.53	35246796.68	35246796.83	0.2701	0.0290
Venus	91795-01-31 13:26 G	35248525.92	35248526.06	35248526.19	0.2641	0.1481
Mercury	91799-11-04 12:29 G	35250263.91	35250264.02	35250264.13	0.2631	0.0559
Mercury	91803-05-12 10:34 G	35251547.92	35251547.94	35251547.95	0.2702	0.2677
Mercury	91812-11-07 06:14 G	35255014.65	35255014.76	35255014.86	0.2631	0.0830
Mercury	91825-11-10 00:00 G	35259765.44	35259765.50	35259765.56	0.2630	0.2236
Mercury	91832-11-02 23:31 G	35262315.40	35262315.48	35262315.57	0.2632	0.1654
Mercury	91836-05-09 10:48 G	35263598.80	35263598.95	35263599.10	0.2702	0.0270
Mercury	91845-11-05 17:17 G	35267066.11	35267066.22	35267066.33	0.2631	0.0280
Mercury	91858-11-08 11:02 G	35271816.86	35271816.96	35271817.06	0.2631	0.1110
Mercury	91869-05-07 10:48 G	35275649.87	35275649.95	35275650.04	0.2700	0.2204
Mercury	91871-11-11 04:48 G	35276567.68	35276567.70	35276567.73	0.2630	0.2522
Mercury	91878-11-04 04:19 G	35279117.59	35279117.68	35279117.78	0.2632	0.1378
Mercury	91882-05-10 17:17 G	35280401.08	35280401.22	35280401.37	0.2702	0.0829
Mercury	91891-11-06 22:05 G	35283868.31	35283868.42	35283868.53	0.2631	0.0003
Mercury	91904-11-09 15:50 G	35288619.07	35288619.16	35288619.25	0.2631	0.1394
Venus	91908-08-03 12:14 G	35289981.98	35289982.01	35289982.04	0.2690	0.2629
Mercury	91911-11-03 15:36 G	35291169.11	35291169.15	35291169.19	0.2633	0.2466
Mercury	91915-05-09 17:31 G	35292452.11	35292452.23	35292452.35	0.2701	0.1636
Venus	91916-08-01 01:41 G	35292901.43	35292901.57	35292901.72	0.2692	0.1047
Mercury	91924-11-05 09:07 G	35295919.78	35295919.88	35295919.99	0.2632	0.1109
Mercury	91928-05-12 00:00 G	35297203.37	35297203.50	35297203.63	0.2702	0.1399

Mercury	91937-11-08 02:53 G	35300670.51	35300670.62	35300670.73	0.2631	0.0280
Mercury	91950-11-10 20:38 G	35305421.28	35305421.36	35305421.45	0.2630	0.1680
Mercury	91957-11-03 20:24 G	35307971.29	35307971.35	35307971.41	0.2633	0.2195
Mercury	91961-05-10 00:00 G	35309254.36	35309254.50	35309254.64	0.2701	0.1066
Mercury	91970-11-06 13:55 G	35312721.98	35312722.08	35312722.19	0.2632	0.0833
Mercury	91974-05-13 06:29 G	35314005.66	35314005.77	35314005.87	0.2702	0.1947
Mercury	91983-11-09 07:41 G	35317472.71	35317472.82	35317472.93	0.2631	0.0557
Mercury	91996-11-11 01:41 G	35322223.49	35322223.57	35322223.64	0.2630	0.1966

93RD MILLENNIUM CE

This is a list of transits visible from Earth in the 93rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	92003-11-05 01:12 G		35324773.48	35324773.55	35324773.62	0.2633	0.1925	
Mercury	92007-05-11 06:29 G		35326056.62	35326056.77	35326056.92	0.2701	0.0504	
Mercury	92016-11-06 18:43 G		35329524.17	35329524.28	35329524.39	0.2632	0.0560	
Mercury	92020-05-13 12:58 G		35330807.99	35330808.04	35330808.09	0.2702	0.2510	
Mercury	92029-11-09 12:29 G		35334274.92	35334275.02	35334275.13	0.2631	0.0840	
Venus	92030-02-04 23:31 G		35334362.37	35334362.48	35334362.58	0.2641	0.1905	
Venus	92038-02-02 16:05 G		35337282.03	35337282.17	35337282.31	0.2640	0.1252	
Mercury	92042-11-12 06:29 G		35339025.71	35339025.77	35339025.82	0.2630	0.2247	
Mercury	92049-11-05 06:00 G		35341575.66	35341575.75	35341575.84	0.2633	0.1649	
Mercury	92053-05-11 13:12 G		35342858.90	35342859.05	35342859.20	0.2701	0.0076	
Mercury	92062-11-07 23:31 G		35346326.37	35346326.48	35346326.60	0.2632	0.0292	

Mercury	92075-11-10 17:17 G	35351077.12	35351077.22	35351077.33	0.2631	0.1122
Mercury	92086-05-09 13:12 G	35354909.98	35354910.05	35354910.11	0.2700	0.2428
Mercury	92088-11-12 11:17 G	35355827.94	35355827.97	35355828.00	0.2630	0.2533
Mercury	92095-11-06 10:48 G	35358377.86	35358377.95	35358378.04	0.2632	0.1377
Mercury	92099-05-12 19:55 G	35359661.18	35359661.33	35359661.48	0.2701	0.0656
Mercury	92108-11-09 04:34 G	35363128.57	35363128.69	35363128.80	0.2632	0.0108
Mercury	92121-11-11 22:19 G	35367879.33	35367879.43	35367879.52	0.2631	0.1403
Mercury	92128-11-04 22:05 G	35370429.38	35370429.42	35370429.45	0.2633	0.2464
Mercury	92132-05-10 19:41 G	35371712.21	35371712.32	35371712.43	0.2700	0.1846
Mercury	92141-11-07 15:36 G	35375180.05	35375180.15	35375180.25	0.2632	0.1098
Mercury	92145-05-14 02:24 G	35376463.46	35376463.60	35376463.73	0.2701	0.1212
Venus	92151-08-05 12:00 G	35378737.97	35378738.00	35378738.04	0.2691	0.2608
Mercury	92154-11-10 09:22 G	35379930.78	35379930.89	35379931.00	0.2631	0.0288
Venus	92159-08-03 01:55 G	35381657.43	35381657.58	35381657.72	0.2693	0.1065
Mercury	92167-11-13 03:07 G	35384681.54	35384681.63	35384681.71	0.2631	0.1686
Mercury	92174-11-06 02:53 G	35387231.56	35387231.62	35387231.68	0.2633	0.2192
Mercury	92178-05-12 02:24 G	35388514.46	35388514.60	35388514.73	0.2701	0.1276
Mercury	92187-11-08 20:24 G	35391982.24	35391982.35	35391982.46	0.2632	0.0825
Mercury	92191-05-15 08:53 G	35393265.76	35393265.87	35393265.99	0.2702	0.1780
Mercury	92200-11-11 14:10 G	35396732.98	35396733.09	35396733.20	0.2631	0.0567
Mercury	92213-11-14 07:55 G	35401483.76	35401483.83	35401483.90	0.2631	0.1971
Mercury	92220-11-07 07:41 G	35404033.74	35404033.82	35404033.89	0.2633	0.1919
Mercury	92224-05-13 08:53 G	35405316.72	35405316.87	35405317.02	0.2701	0.0693
Mercury	92233-11-10 01:12 G	35408784.44	35408784.55	35408784.66	0.2632	0.0547
Mercury	92237-05-16 15:22 G	35410068.07	35410068.14	35410068.22	0.2702	0.2337
Mercury	92246-11-12 18:58 G	35413535.18	35413535.29	35413535.40	0.2631	0.0846
Mercury	92259-11-15 12:43 G	35418285.98	35418286.03	35418286.09	0.2631	0.2257
Mercury	92266-11-08 12:29 G	35420835.93	35420836.02	35420836.10	0.2633	0.1648
Mercury	92270-05-14 15:36 G	35422118.99	35422119.15	35422119.30	0.2701	0.0122
Venus	92273-02-07 02:24 G	35423118.51	35423118.60	35423118.69	0.2641	0.2146

Mercury	92279-11-11 06:00 G	35425586.64	35425586.75	35425586.86	0.2632	0.0276
Venus	92281-02-04 18:58 G	35426038.14	35426038.29	35426038.44	0.2639	0.1016
Mercury	92292-11-12 23:46 G	35430337.39	35430337.49	35430337.59	0.2631	0.1132
Mercury	92303-05-13 15:22 G	35434170.11	35434170.14	35434170.16	0.2700	0.2647
Mercury	92305-11-16 17:31 G	35435088.21	35435088.23	35435088.26	0.2630	0.2543
Mercury	92312-11-09 17:17 G	35437638.12	35437638.22	35437638.31	0.2633	0.1374
Mercury	92316-05-15 22:05 G	35438921.27	35438921.42	35438921.57	0.2701	0.0450
Mercury	92325-11-12 10:48 G	35442388.84	35442388.95	35442389.07	0.2632	0.0093
Mercury	92338-11-15 04:34 G	35447139.60	35447139.69	35447139.79	0.2631	0.1412
Mercury	92345-11-08 04:19 G	35449689.65	35449689.68	35449689.72	0.2634	0.2466
Mercury	92349-05-13 21:50 G	35450972.32	35450972.41	35450972.51	0.2700	0.2065
Mercury	92358-11-10 22:05 G	35454440.32	35454440.42	35454440.52	0.2633	0.1100
Mercury	92362-05-17 04:34 G	35455723.55	35455723.69	35455723.84	0.2701	0.1028
Mercury	92371-11-13 15:36 G	35459191.04	35459191.15	35459191.27	0.2632	0.0304
Mercury	92384-11-15 09:22 G	35463941.81	35463941.89	35463941.98	0.2631	0.1697
Mercury	92391-11-09 09:07 G	35466491.83	35466491.88	35466491.94	0.2633	0.2193
Venus	92394-08-07 12:00 G	35467493.95	35467494.00	35467494.04	0.2692	0.2571
Mercury	92395-05-15 04:34 G	35467774.56	35467774.69	35467774.82	0.2700	0.1475
Venus	92402-08-05 01:26 G	35470413.42	35470413.56	35470413.71	0.2694	0.1120
Mercury	92404-11-11 02:53 G	35471242.51	35471242.62	35471242.73	0.2633	0.0818
Mercury	92408-05-17 11:17 G	35472525.85	35472525.97	35472526.09	0.2701	0.1598
Mercury	92417-11-13 20:38 G	35475993.25	35475993.36	35475993.46	0.2632	0.0580
Mercury	92430-11-16 14:10 G	35480744.02	35480744.09	35480744.17	0.2631	0.1978
Mercury	92437-11-09 14:10 G	35483294.01	35483294.09	35483294.16	0.2633	0.1917
Mercury	92441-05-15 11:17 G	35484576.82	35484576.97	35484577.11	0.2700	0.0896
Mercury	92450-11-12 07:41 G	35488044.71	35488044.82	35488044.93	0.2632	0.0540
Mercury	92454-05-18 17:46 G	35489328.15	35489328.24	35489328.33	0.2701	0.2173
Mercury	92463-11-15 01:26 G	35492795.45	35492795.56	35492795.66	0.2632	0.0860
Mercury	92476-11-16 19:12 G	35497546.24	35497546.30	35497546.35	0.2631	0.2266
Mercury	92483-11-10 18:58 G	35500096.20	35500096.29	35500096.37	0.2633	0.1643

Mercury	92487-05-16 17:46 G	35501379.09	35501379.24	35501379.39	0.2700	0.0317
Mercury	92496-11-12 12:29 G	35504846.91	35504847.02	35504847.13	0.2632	0.0259
Mercury	92509-11-16 06:14 G	35509597.66	35509597.76	35509597.86	0.2631	0.1138
Venus	92516-02-10 05:02 G	35511874.64	35511874.71	35511874.78	0.2640	0.2359
Mercury	92522-11-19 00:00 G	35514348.47	35514348.50	35514348.52	0.2631	0.2554
Venus	92524-02-07 21:36 G	35514794.25	35514794.40	35514794.55	0.2639	0.0809
Mercury	92529-11-11 23:46 G	35516898.39	35516898.49	35516898.58	0.2633	0.1368
Mercury	92533-05-18 00:29 G	35518181.36	35518181.52	35518181.67	0.2701	0.0267
Mercury	92542-11-14 17:17 G	35521649.11	35521649.22	35521649.33	0.2632	0.0017
Mercury	92555-11-17 11:02 G	35526399.86	35526399.96	35526400.05	0.2631	0.1423
Mercury	92562-11-10 10:48 G	35528949.92	35528949.95	35528949.99	0.2634	0.2461
Mercury	92566-05-16 00:00 G	35530232.42	35530232.50	35530232.58	0.2699	0.2286
Mercury	92575-11-13 04:34 G	35533700.59	35533700.69	35533700.79	0.2633	0.1090
Mercury	92579-05-19 06:58 G	35534983.64	35534983.79	35534983.94	0.2701	0.0835
Mercury	92588-11-14 22:05 G	35538451.31	35538451.42	35538451.53	0.2632	0.0298
Mercury	92601-11-18 15:50 G	35543202.07	35543202.16	35543202.24	0.2631	0.1702
Mercury	92608-11-11 15:36 G	35545752.10	35545752.15	35545752.21	0.2634	0.2190
Mercury	92612-05-17 06:43 G	35547034.66	35547034.78	35547034.90	0.2700	0.1697
Mercury	92621-11-14 09:22 G	35550502.78	35550502.89	35550502.99	0.2633	0.0816
Mercury	92625-05-20 13:41 G	35551785.94	35551786.07	35551786.20	0.2701	0.1413
Mercury	92634-11-17 02:53 G	35555253.51	35555253.62	35555253.73	0.2632	0.0580
Venus	92637-08-09 11:46 G	35556249.94	35556249.99	35556250.04	0.2693	0.2527
Venus	92645-08-07 01:41 G	35559169.42	35559169.57	35559169.71	0.2694	0.1129
Mercury	92647-11-19 20:38 G	35560004.29	35560004.36	35560004.43	0.2631	0.1991
Mercury	92654-11-12 20:24 G	35562554.28	35562554.35	35562554.43	0.2634	0.1918
Mercury	92658-05-18 13:26 G	35563836.92	35563837.06	35563837.20	0.2700	0.1107
Mercury	92667-11-15 14:10 G	35567304.98	35567305.09	35567305.19	0.2633	0.0544
Mercury	92671-05-21 20:10 G	35568588.24	35568588.34	35568588.44	0.2701	0.1982
Mercury	92680-11-17 07:41 G	35572055.72	35572055.82	35572055.93	0.2632	0.0861
Mercury	92693-11-20 01:26 G	35576806.51	35576806.56	35576806.62	0.2631	0.2276

Mercury	92700-11-14 01:26 G	35579356.47	35579356.56	35579356.64	0.2633	0.1642
Mercury	92704-05-19 19:55 G	35580639.18	35580639.33	35580639.49	0.2700	0.0527
Mercury	92713-11-16 18:58 G	35584107.17	35584107.29	35584107.40	0.2633	0.0279
Mercury	92717-05-23 02:53 G	35585390.57	35585390.62	35585390.66	0.2701	0.2561
Mercury	92726-11-19 12:29 G	35588857.92	35588858.02	35588858.12	0.2632	0.1143
Mercury	92739-11-22 06:14 G	35593608.74	35593608.76	35593608.79	0.2631	0.2563
Mercury	92746-11-15 06:00 G	35596158.66	35596158.75	35596158.85	0.2633	0.1364
Mercury	92750-05-21 02:38 G	35597441.46	35597441.61	35597441.77	0.2700	0.0063
Venus	92759-02-12 07:41 G	35600630.80	35600630.82	35600630.85	0.2639	0.2603
Mercury	92759-11-17 23:46 G	35600909.38	35600909.49	35600909.60	0.2632	0.0079
Venus	92767-02-10 00:14 G	35603550.36	35603550.51	35603550.67	0.2638	0.0576
Mercury	92772-11-19 17:17 G	35605660.13	35605660.22	35605660.32	0.2632	0.1428
Mercury	92779-11-13 17:17 G	35608210.19	35608210.22	35608210.26	0.2634	0.2459
Mercury	92783-05-19 02:10 G	35609492.54	35609492.59	35609492.65	0.2699	0.2505
Mercury	92792-11-15 10:48 G	35612960.85	35612960.95	35612961.05	0.2633	0.1087
Mercury	92796-05-21 09:22 G	35614243.74	35614243.89	35614244.04	0.2700	0.0647
Mercury	92805-11-18 04:34 G	35617711.58	35617711.69	35617711.80	0.2632	0.0313
Mercury	92818-11-20 22:19 G	35622462.34	35622462.43	35622462.51	0.2632	0.1717
Mercury	92825-11-13 22:05 G	35625012.36	35625012.42	35625012.48	0.2634	0.2185
Mercury	92829-05-19 08:53 G	35626294.76	35626294.87	35626294.98	0.2699	0.1911
Mercury	92838-11-16 15:36 G	35629763.05	35629763.15	35629763.26	0.2633	0.0811
Mercury	92842-05-22 15:50 G	35631046.02	35631046.16	35631046.30	0.2700	0.1223
Mercury	92851-11-19 09:22 G	35634513.78	35634513.89	35634514.00	0.2632	0.0589
Mercury	92864-11-21 03:07 G	35639264.56	35639264.63	35639264.70	0.2631	0.2001
Mercury	92871-11-15 02:53 G	35641814.55	35641814.62	35641814.70	0.2634	0.1911
Mercury	92875-05-20 15:36 G	35643097.01	35643097.15	35643097.28	0.2699	0.1328
Venus	92880-08-10 11:46 G	35645005.93	35645005.99	35645006.04	0.2694	0.2496
Mercury	92884-11-16 20:24 G	35646565.24	35646565.35	35646565.46	0.2633	0.0536
Mercury	92888-05-22 22:34 G	35647848.32	35647848.44	35647848.55	0.2701	0.1803
Venus	92888-08-08 01:26 G	35647925.42	35647925.56	35647925.70	0.2695	0.1195

Mercury	92897-11-19 14:10 G	35651315.98	35651316.09	35651316.19	0.2632	0.0869
Mercury	92910-11-23 07:55 G	35656066.77	35656066.83	35656066.88	0.2631	0.2289
Mercury	92917-11-16 07:41 G	35658616.74	35658616.82	35658616.91	0.2634	0.1633
Mercury	92921-05-21 22:05 G	35659899.28	35659899.42	35659899.57	0.2700	0.0742
Mercury	92930-11-19 01:12 G	35663367.44	35663367.55	35663367.67	0.2633	0.0269
Mercury	92934-05-25 05:02 G	35664650.64	35664650.71	35664650.78	0.2701	0.2374
Mercury	92943-11-21 18:58 G	35668118.19	35668118.29	35668118.39	0.2632	0.1153
Mercury	92956-11-23 12:43 G	35672869.01	35672869.03	35672869.05	0.2631	0.2572
Mercury	92963-11-17 12:29 G	35675418.93	35675419.02	35675419.12	0.2634	0.1360
Mercury	92967-05-23 04:48 G	35676701.55	35676701.70	35676701.86	0.2700	0.0145
Mercury	92976-11-19 06:00 G	35680169.64	35680169.75	35680169.87	0.2633	0.0113
Mercury	92989-11-21 23:46 G	35684920.40	35684920.49	35684920.58	0.2632	0.1439
Mercury	92996-11-14 23:46 G	35687470.46	35687470.49	35687470.53	0.2635	0.2456

94TH MILLENNIUM CE

This is a list of transits visible from Earth in the 94th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	93009-11-18 17:17 G	35692221.12	35692221.22	35692221.32	0.2634	0.1083		
Venus	93010-02-12 02:38 G	35692306.45	35692306.61	35692306.77	0.2637	0.0373		
Mercury	93013-05-24 11:31 G	35693503.82	35693503.98	35693504.13	0.2700	0.0447		
Mercury	93022-11-21 11:02 G	35696971.84	35696971.96	35696972.07	0.2633	0.0328		
Mercury	93035-11-24 04:34 G	35701722.61	35701722.69	35701722.77	0.2632	0.1722		
Mercury	93042-11-17 04:34 G	35704272.63	35704272.69	35704272.75	0.2634	0.2181		

Mercury	93046-05-22 11:02 G	35705554.86	35705554.96	35705555.05	0.2699	0.2138
Mercury	93055-11-19 22:05 G	35709023.32	35709023.42	35709023.53	0.2633	0.0804
Mercury	93059-05-25 18:00 G	35710306.11	35710306.25	35710306.40	0.2700	0.1036
Mercury	93068-11-21 15:50 G	35713774.05	35713774.16	35713774.26	0.2633	0.0602
Mercury	93081-11-24 09:22 G	35718524.82	35718524.89	35718524.96	0.2632	0.2007
Mercury	93088-11-17 09:22 G	35721074.82	35721074.89	35721074.97	0.2634	0.1903
Mercury	93092-05-22 17:46 G	35722357.11	35722357.24	35722357.36	0.2699	0.1540
Mercury	93101-11-21 02:53 G	35725825.51	35725825.62	35725825.73	0.2633	0.0526
Mercury	93105-05-27 00:43 G	35727108.40	35727108.53	35727108.65	0.2700	0.1612
Mercury	93114-11-23 20:38 G	35730576.25	35730576.36	35730576.46	0.2632	0.0884
Venus	93123-08-14 11:31 G	35733761.92	35733761.98	35733762.05	0.2695	0.2454
Mercury	93127-11-26 14:10 G	35735327.04	35735327.09	35735327.14	0.2632	0.2294
Venus	93131-08-12 01:41 G	35736681.43	35736681.57	35736681.71	0.2696	0.1204
Mercury	93134-11-19 14:10 G	35737877.01	35737877.09	35737877.18	0.2634	0.1630
Mercury	93138-05-25 00:14 G	35739159.37	35739159.51	35739159.66	0.2699	0.0943
Mercury	93147-11-22 07:41 G	35742627.71	35742627.82	35742627.93	0.2633	0.0252
Mercury	93151-05-28 07:26 G	35743910.72	35743910.81	35743910.89	0.2700	0.2203
Mercury	93160-11-24 01:26 G	35747378.46	35747378.56	35747378.66	0.2632	0.1169
Mercury	93173-11-26 18:58 G	35752129.28	35752129.29	35752129.31	0.2631	0.2587
Mercury	93180-11-19 18:58 G	35754679.20	35754679.29	35754679.39	0.2634	0.1352
Mercury	93184-05-25 06:58 G	35755961.64	35755961.79	35755961.94	0.2699	0.0351
Mercury	93193-11-22 12:29 G	35759429.91	35759430.02	35759430.13	0.2633	0.0079
Mercury	93206-11-25 06:14 G	35764180.66	35764180.76	35764180.85	0.2632	0.1451
Mercury	93213-11-18 06:14 G	35766730.72	35766730.76	35766730.80	0.2635	0.2453
Mercury	93226-11-20 23:46 G	35771481.39	35771481.49	35771481.59	0.2634	0.1076
Mercury	93230-05-26 13:41 G	35772763.91	35772764.07	35772764.22	0.2700	0.0245
Mercury	93239-11-23 17:17 G	35776232.11	35776232.22	35776232.33	0.2633	0.0324
Mercury	93252-11-25 11:02 G	35780982.87	35780982.96	35780983.04	0.2632	0.1734
Venus	93253-02-13 05:17 G	35781062.56	35781062.72	35781062.88	0.2636	0.0165
Mercury	93259-11-19 11:02 G	35783532.90	35783532.96	35783533.02	0.2635	0.2178

Mercury	93263-05-24 12:58 G	35784814.97	35784815.04	35784815.12	0.2699	0.2359
Mercury	93272-11-21 04:34 G	35788283.59	35788283.69	35788283.80	0.2634	0.0794
Mercury	93276-05-26 20:10 G	35789566.20	35789566.34	35789566.49	0.2700	0.0830
Mercury	93285-11-23 22:05 G	35793034.31	35793034.42	35793034.53	0.2633	0.0603
Mercury	93298-11-26 15:50 G	35797785.09	35797785.16	35797785.23	0.2632	0.2019
Mercury	93305-11-20 15:50 G	35800335.09	35800335.16	35800335.24	0.2635	0.1902
Mercury	93309-05-25 19:41 G	35801617.21	35801617.32	35801617.44	0.2699	0.1758
Mercury	93318-11-23 09:22 G	35805085.78	35805085.89	35805086.00	0.2634	0.0516
Mercury	93322-05-29 02:53 G	35806368.49	35806368.62	35806368.75	0.2700	0.1436
Mercury	93331-11-26 02:53 G	35809836.52	35809836.62	35809836.73	0.2633	0.0888
Mercury	93344-11-27 20:38 G	35814587.31	35814587.36	35814587.41	0.2632	0.2307
Mercury	93351-11-21 20:38 G	35817137.28	35817137.36	35817137.45	0.2635	0.1623
Mercury	93355-05-27 02:24 G	35818419.46	35818419.60	35818419.74	0.2699	0.1154
Mercury	93364-11-23 14:10 G	35821887.98	35821888.09	35821888.20	0.2634	0.0234
Venus	93366-08-15 11:46 G	35822517.92	35822517.99	35822518.06	0.2695	0.2421
Mercury	93368-05-29 09:36 G	35823170.80	35823170.90	35823171.00	0.2700	0.2016
Venus	93374-08-13 01:41 G	35825437.43	35825437.57	35825437.71	0.2697	0.1253
Mercury	93377-11-26 07:41 G	35826638.72	35826638.82	35826638.92	0.2633	0.1172
Mercury	93390-11-29 01:26 G	35831389.55	35831389.56	35831389.57	0.2632	0.2595
Mercury	93397-11-22 01:26 G	35833939.47	35833939.56	35833939.66	0.2634	0.1345
Mercury	93401-05-28 09:07 G	35835221.73	35835221.88	35835222.03	0.2699	0.0560
Mercury	93410-11-25 18:58 G	35838690.18	35838690.29	35838690.40	0.2633	0.0051
Mercury	93414-05-31 16:19 G	35839973.14	35839973.18	35839973.21	0.2700	0.2606
Mercury	93423-11-28 12:29 G	35843440.93	35843441.02	35843441.12	0.2633	0.1461
Mercury	93430-11-21 12:43 G	35845991.00	35845991.03	35845991.07	0.2635	0.2448
Mercury	93443-11-24 06:14 G	35850741.66	35850741.76	35850741.86	0.2634	0.1064
Mercury	93447-05-29 15:50 G	35852024.00	35852024.16	35852024.31	0.2699	0.0044
Mercury	93456-11-25 23:46 G	35855492.38	35855492.49	35855492.60	0.2633	0.0331
Mercury	93469-11-28 17:17 G	35860243.14	35860243.22	35860243.31	0.2632	0.1750
Mercury	93476-11-21 17:31 G	35862793.17	35862793.23	35862793.29	0.2635	0.2171

Mercury	93480-05-26 15:07 G	35864075.09	35864075.13	35864075.17	0.2698	0.2592
Mercury	93489-11-24 11:02 G	35867543.85	35867543.96	35867544.06	0.2634	0.0789
Mercury	93493-05-29 22:34 G	35868826.29	35868826.44	35868826.59	0.2699	0.0645
Venus	93496-02-16 07:41 G	35869818.66	35869818.82	35869818.98	0.2636	0.0059
Mercury	93502-11-28 04:34 G	35872294.58	35872294.69	35872294.80	0.2633	0.0616
Mercury	93515-11-30 22:19 G	35877045.36	35877045.43	35877045.50	0.2632	0.2036
Mercury	93522-11-23 22:19 G	35879595.35	35879595.43	35879595.51	0.2635	0.1897
Mercury	93526-05-28 21:50 G	35880877.31	35880877.41	35880877.51	0.2698	0.1978
Mercury	93535-11-26 15:50 G	35884346.05	35884346.16	35884346.27	0.2634	0.0508
Mercury	93539-06-01 05:02 G	35885628.57	35885628.71	35885628.85	0.2699	0.1226
Mercury	93548-11-28 09:22 G	35889096.79	35889096.89	35889097.00	0.2633	0.0899
Mercury	93561-12-01 03:07 G	35893847.58	35893847.63	35893847.68	0.2632	0.2322
Mercury	93568-11-24 03:07 G	35896397.54	35896397.63	35896397.72	0.2635	0.1620
Mercury	93572-05-29 04:34 G	35897679.55	35897679.69	35897679.82	0.2698	0.1382
Mercury	93581-11-26 20:38 G	35901148.25	35901148.36	35901148.47	0.2634	0.0232
Mercury	93585-06-01 11:46 G	35902430.88	35902430.99	35902431.10	0.2700	0.1822
Mercury	93594-11-29 14:10 G	35905898.99	35905899.09	35905899.19	0.2633	0.1184
Mercury	93607-12-02 07:55 G	35910649.82	35910649.83	35910649.84	0.2632	0.2610
Venus	93609-08-17 11:46 G	35911273.92	35911273.99	35911274.06	0.2696	0.2393
Mercury	93614-11-25 07:55 G	35913199.73	35913199.83	35913199.92	0.2635	0.1339
Venus	93617-08-15 01:55 G	35914193.44	35914193.58	35914193.72	0.2697	0.1274
Mercury	93618-05-30 11:17 G	35914481.82	35914481.97	35914482.12	0.2699	0.0765
Mercury	93627-11-28 01:26 G	35917950.45	35917950.56	35917950.67	0.2634	0.0062
Mercury	93631-06-02 18:14 G	35919233.20	35919233.26	35919233.33	0.2700	0.2411
Mercury	93640-11-29 18:58 G	35922701.20	35922701.29	35922701.38	0.2633	0.1468
Mercury	93647-11-23 19:12 G	35925251.26	35925251.30	35925251.34	0.2636	0.2441
Mercury	93660-11-25 12:43 G	35930001.93	35930002.03	35930002.13	0.2635	0.1060
Mercury	93664-05-30 18:00 G	35931284.09	35931284.25	35931284.40	0.2699	0.0163
Mercury	93673-11-28 06:14 G	35934752.65	35934752.76	35934752.87	0.2634	0.0341
Mercury	93686-11-30 23:46 G	35939503.41	35939503.49	35939503.57	0.2633	0.1757

Mercury	93693-11-24 00:00 G	35942053.44	35942053.50	35942053.56	0.2635	0.2167
Mercury	93706-11-27 17:31 G	35946804.12	35946804.23	35946804.33	0.2634	0.0778
Mercury	93710-06-02 00:29 G	35948086.37	35948086.52	35948086.68	0.2699	0.0437
Mercury	93719-11-30 11:02 G	35951554.85	35951554.96	35951555.07	0.2633	0.0626
Mercury	93732-12-02 04:34 G	35956305.62	35956305.69	35956305.76	0.2633	0.2043
Venus	93739-02-18 10:05 G	35958574.76	35958574.92	35958575.08	0.2635	0.0261
Mercury	93739-11-26 04:48 G	35958855.62	35958855.70	35958855.78	0.2635	0.1888
Mercury	93743-05-30 23:46 G	35960137.40	35960137.49	35960137.58	0.2698	0.2209
Mercury	93752-11-27 22:19 G	35963606.32	35963606.43	35963606.54	0.2634	0.0498
Mercury	93756-06-02 07:12 G	35964888.66	35964888.80	35964888.94	0.2699	0.1035
Mercury	93765-11-30 15:50 G	35968357.05	35968357.16	35968357.26	0.2633	0.0911
Mercury	93778-12-03 09:22 G	35973107.84	35973107.89	35973107.94	0.2632	0.2334
Mercury	93785-11-26 09:36 G	35975657.81	35975657.90	35975657.99	0.2635	0.1609
Mercury	93789-05-31 06:29 G	35976939.65	35976939.77	35976939.90	0.2698	0.1593
Mercury	93798-11-29 03:07 G	35980408.52	35980408.63	35980408.74	0.2634	0.0214
Mercury	93802-06-04 13:55 G	35981690.96	35981691.08	35981691.20	0.2699	0.1633
Mercury	93811-12-02 20:38 G	35985159.26	35985159.36	35985159.46	0.2633	0.1196
Mercury	93824-12-04 14:09 G	35989910.09	35989910.09	35989910.10	0.2632	0.2623
Mercury	93831-11-28 14:24 G	35992460.00	35992460.10	35992460.19	0.2635	0.1330
Mercury	93835-06-02 13:12 G	35993741.91	35993742.05	35993742.20	0.2698	0.0990
Mercury	93844-11-30 07:55 G	35997210.72	35997210.83	35997210.94	0.2634	0.0076
Mercury	93848-06-04 20:38 G	35998493.27	35998493.36	35998493.44	0.2699	0.2238
Venus	93852-08-19 12:14 G	36000029.93	36000030.01	36000030.08	0.2697	0.2369
Mercury	93857-12-03 01:26 G	36001961.47	36001961.56	36001961.65	0.2633	0.1485
Venus	93860-08-17 02:09 G	36002949.45	36002949.59	36002949.73	0.2698	0.1288
Mercury	93864-11-26 01:41 G	36004511.53	36004511.57	36004511.61	0.2636	0.2440
Mercury	93877-11-28 19:12 G	36009262.20	36009262.30	36009262.40	0.2635	0.1052
Mercury	93881-06-02 19:55 G	36010544.18	36010544.33	36010544.49	0.2698	0.0377
Mercury	93890-12-01 12:43 G	36014012.92	36014013.03	36014013.14	0.2634	0.0359
Mercury	93903-12-05 06:14 G	36018763.68	36018763.76	36018763.84	0.2633	0.1769

Mercury	93910-11-28 06:29 G	36021313.71	36021313.77	36021313.83	0.2636	0.2160
Mercury	93923-12-01 00:00 G	36026064.39	36026064.50	36026064.60	0.2635	0.0772
Mercury	93927-06-05 02:38 G	36027346.46	36027346.61	36027346.77	0.2699	0.0229
Mercury	93936-12-02 17:31 G	36030815.12	36030815.23	36030815.33	0.2634	0.0641
Mercury	93949-12-05 11:02 G	36035565.89	36035565.96	36035566.03	0.2633	0.2058
Mercury	93956-11-28 11:17 G	36038115.90	36038115.97	36038116.05	0.2636	0.1880
Mercury	93960-06-02 01:55 G	36039397.51	36039397.58	36039397.64	0.2697	0.2427
Mercury	93969-12-01 04:48 G	36042866.59	36042866.70	36042866.81	0.2635	0.0488
Mercury	93973-06-05 09:21 G	36044148.74	36044148.89	36044149.04	0.2699	0.0843
Venus	93982-02-20 12:29 G	36047330.86	36047331.02	36047331.18	0.2635	0.0478
Mercury	93982-12-03 22:19 G	36047617.32	36047617.43	36047617.53	0.2634	0.0925
Mercury	93995-12-06 15:50 G	36052368.11	36052368.16	36052368.21	0.2633	0.2344

95TH MILLENNIUM CE

This is a list of transits visible from Earth in the 95th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	94002-11-29 16:05 G		36054918.08	36054918.17	36054918.26	0.2635	0.1600	
Mercury	94006-06-03 08:38 G		36056199.74	36056199.86	36056199.97	0.2698	0.1817	
Mercury	94015-12-02 09:36 G		36059668.79	36059668.90	36059669.01	0.2634	0.0216	
Mercury	94019-06-06 16:05 G		36060951.04	36060951.17	36060951.30	0.2699	0.1451	
Mercury	94028-12-04 03:07 G		36064419.53	36064419.63	36064419.72	0.2634	0.1212	
Mercury	94048-11-29 20:53 G		36071720.27	36071720.37	36071720.46	0.2635	0.1323	
Mercury	94052-06-03 15:21 G		36073002.00	36073002.14	36073002.28	0.2698	0.1195	

Mercury	94061-12-02 14:24 G	36076470.98	36076471.10	36076471.21	0.2634	0.0128
Mercury	94065-06-06 22:48 G	36077753.35	36077753.45	36077753.55	0.2699	0.2047
Mercury	94074-12-05 07:55 G	36081221.74	36081221.83	36081221.92	0.2633	0.1498
Mercury	94081-11-28 08:09 G	36083771.81	36083771.84	36083771.88	0.2636	0.2432
Mercury	94094-12-01 01:41 G	36088522.47	36088522.57	36088522.67	0.2635	0.1042
Venus	94095-08-21 12:14 G	36088785.94	36088786.01	36088786.09	0.2698	0.2344
Mercury	94098-06-04 22:05 G	36089804.27	36089804.42	36089804.57	0.2698	0.0589
Venus	94103-08-20 02:24 G	36091705.47	36091705.60	36091705.74	0.2699	0.1321
Mercury	94107-12-04 19:12 G	36093273.19	36093273.30	36093273.40	0.2634	0.0378
Mercury	94111-06-09 05:31 G	36094555.70	36094555.73	36094555.75	0.2699	0.2655
Mercury	94120-12-06 12:43 G	36098023.95	36098024.03	36098024.11	0.2633	0.1786
Mercury	94127-11-30 12:57 G	36100573.98	36100574.04	36100574.10	0.2636	0.2153
Mercury	94140-12-02 06:29 G	36105324.66	36105324.77	36105324.87	0.2635	0.0762
Mercury	94144-06-06 04:48 G	36106606.54	36106606.70	36106606.85	0.2698	0.0041
Mercury	94153-12-05 00:00 G	36110075.39	36110075.50	36110075.60	0.2634	0.0656
Mercury	94166-12-07 17:31 G	36114826.16	36114826.23	36114826.30	0.2633	0.2072
Mercury	94173-11-30 17:45 G	36117376.17	36117376.24	36117376.32	0.2636	0.1875
Mercury	94177-06-04 03:50 G	36118657.64	36118657.66	36118657.68	0.2697	0.2664
Mercury	94186-12-03 11:17 G	36122126.86	36122126.97	36122127.07	0.2635	0.0488
Mercury	94190-06-07 11:31 G	36123408.83	36123408.98	36123409.13	0.2698	0.0639
Mercury	94199-12-06 04:48 G	36126877.59	36126877.70	36126877.80	0.2634	0.0940
Mercury	94212-12-08 22:19 G	36131628.38	36131628.43	36131628.47	0.2633	0.2365
Mercury	94219-12-02 22:33 G	36134178.35	36134178.44	36134178.53	0.2636	0.1596
Mercury	94223-06-06 10:33 G	36135459.84	36135459.94	36135460.04	0.2697	0.2032
Venus	94225-02-22 14:38 G	36136086.96	36136087.11	36136087.26	0.2634	0.0673
Mercury	94232-12-04 16:05 G	36138929.05	36138929.17	36138929.28	0.2635	0.0225
Venus	94233-02-20 06:43 G	36139006.75	36139006.78	36139006.82	0.2633	0.2559
Mercury	94236-06-08 18:00 G	36140211.12	36140211.25	36140211.39	0.2698	0.1251
Mercury	94245-12-07 09:36 G	36143679.80	36143679.90	36143679.99	0.2634	0.1225
Mercury	94265-12-03 03:21 G	36150980.54	36150980.64	36150980.73	0.2636	0.1314

Mercury	94269-06-06 17:17 G	36152262.09	36152262.22	36152262.36	0.2697	0.1416
Mercury	94278-12-05 20:53 G	36155731.26	36155731.37	36155731.48	0.2635	0.0130
Mercury	94282-06-10 00:57 G	36157013.42	36157013.54	36157013.65	0.2699	0.1860
Mercury	94291-12-08 14:24 G	36160482.01	36160482.10	36160482.19	0.2634	0.1510
Mercury	94298-12-01 14:38 G	36163032.07	36163032.11	36163032.15	0.2637	0.2424
Mercury	94311-12-05 08:09 G	36167782.74	36167782.84	36167782.94	0.2636	0.1031
Mercury	94315-06-09 00:00 G	36169064.35	36169064.50	36169064.65	0.2697	0.0798
Mercury	94324-12-07 01:41 G	36172533.46	36172533.57	36172533.68	0.2634	0.0386
Mercury	94328-06-11 07:26 G	36173815.75	36173815.81	36173815.87	0.2699	0.2463
Mercury	94337-12-09 19:12 G	36177284.22	36177284.30	36177284.38	0.2634	0.1799
Venus	94338-08-24 12:43 G	36177541.96	36177542.03	36177542.11	0.2698	0.2330
Mercury	94344-12-02 19:26 G	36179834.25	36179834.31	36179834.37	0.2636	0.2146
Venus	94346-08-22 03:07 G	36180461.49	36180461.63	36180461.77	0.2699	0.1320
Mercury	94357-12-05 12:57 G	36184584.93	36184585.04	36184585.14	0.2635	0.0750
Mercury	94361-06-09 06:43 G	36185866.63	36185866.78	36185866.94	0.2698	0.0183
Mercury	94370-12-08 06:29 G	36189335.66	36189335.77	36189335.87	0.2634	0.0670
Mercury	94383-12-10 23:45 G	36194086.43	36194086.49	36194086.56	0.2633	0.2092
Mercury	94390-12-04 00:14 G	36196636.43	36196636.51	36196636.59	0.2636	0.1866
Mercury	94403-12-06 17:45 G	36201387.13	36201387.24	36201387.35	0.2635	0.0471
Mercury	94407-06-10 13:26 G	36202668.91	36202669.06	36202669.22	0.2698	0.0435
Mercury	94416-12-08 11:17 G	36206137.86	36206137.97	36206138.07	0.2634	0.0956
Mercury	94429-12-11 04:33 G	36210888.65	36210888.69	36210888.74	0.2633	0.2380
Mercury	94436-12-04 05:02 G	36213438.62	36213438.71	36213438.80	0.2636	0.1586
Mercury	94440-06-07 12:29 G	36214719.94	36214720.02	36214720.10	0.2697	0.2273
Mercury	94449-12-06 22:33 G	36218189.33	36218189.44	36218189.55	0.2635	0.0195
Mercury	94453-06-10 20:09 G	36219471.20	36219471.34	36219471.48	0.2698	0.1041
Mercury	94462-12-09 15:50 G	36222940.07	36222940.16	36222940.26	0.2634	0.1237
Venus	94468-02-24 17:02 G	36224843.06	36224843.21	36224843.36	0.2633	0.0882
Venus	94476-02-22 08:53 G	36227762.80	36227762.87	36227762.94	0.2632	0.2367
Mercury	94482-12-05 09:50 G	36230240.81	36230240.91	36230241.00	0.2636	0.1304

Mercury	94486-06-08 19:12 G	36231522.18	36231522.30	36231522.42	0.2697	0.1648
Mercury	94495-12-08 03:21 G	36234991.53	36234991.64	36234991.75	0.2635	0.0139
Mercury	94499-06-12 02:53 G	36236273.50	36236273.62	36236273.74	0.2698	0.1653
Mercury	94508-12-10 20:38 G	36239742.27	36239742.36	36239742.45	0.2634	0.1524
Mercury	94515-12-04 21:07 G	36242292.34	36242292.38	36242292.43	0.2637	0.2420
Mercury	94528-12-06 14:38 G	36247043.01	36247043.11	36247043.21	0.2636	0.1024
Mercury	94532-06-10 01:55 G	36248324.44	36248324.58	36248324.73	0.2697	0.1020
Mercury	94541-12-09 07:55 G	36251793.73	36251793.83	36251793.94	0.2635	0.0400
Mercury	94545-06-13 09:36 G	36253075.82	36253075.90	36253075.98	0.2698	0.2271
Mercury	94554-12-12 01:26 G	36256544.48	36256544.56	36256544.64	0.2634	0.1812
Mercury	94561-12-05 01:55 G	36259094.52	36259094.58	36259094.65	0.2637	0.2140
Mercury	94574-12-07 19:26 G	36263845.20	36263845.31	36263845.41	0.2636	0.0740
Mercury	94578-06-11 08:38 G	36265126.71	36265126.86	36265127.02	0.2697	0.0400
Venus	94581-08-25 13:12 G	36266297.97	36266298.05	36266298.13	0.2699	0.2294
Mercury	94587-12-10 12:43 G	36268595.93	36268596.03	36268596.14	0.2635	0.0675
Venus	94589-08-23 03:21 G	36269217.51	36269217.64	36269217.78	0.2700	0.1348
Mercury	94600-12-13 06:14 G	36273346.70	36273346.76	36273346.83	0.2634	0.2100
Mercury	94607-12-07 06:43 G	36275896.71	36275896.78	36275896.86	0.2637	0.1857
Mercury	94620-12-09 00:14 G	36280647.40	36280647.51	36280647.62	0.2635	0.0460
Mercury	94624-06-12 15:21 G	36281928.99	36281929.14	36281929.30	0.2697	0.0234
Mercury	94633-12-11 17:31 G	36285398.13	36285398.23	36285398.33	0.2635	0.0960
Mercury	94646-12-14 11:02 G	36290148.92	36290148.96	36290149.01	0.2634	0.2390
Mercury	94653-12-07 11:31 G	36292698.90	36292698.98	36292699.07	0.2636	0.1575
Mercury	94657-06-10 14:24 G	36293980.04	36293980.10	36293980.15	0.2696	0.2497
Mercury	94666-12-10 05:02 G	36297449.60	36297449.71	36297449.82	0.2635	0.0197
Mercury	94670-06-13 22:05 G	36298731.28	36298731.42	36298731.57	0.2698	0.0845
Mercury	94679-12-12 22:19 G	36302200.34	36302200.43	36302200.53	0.2634	0.1250
Mercury	94699-12-08 16:19 G	36309501.09	36309501.18	36309501.28	0.2636	0.1294
Mercury	94703-06-12 21:07 G	36310782.27	36310782.38	36310782.49	0.2696	0.1870
Venus	94711-02-27 18:57 G	36313599.14	36313599.29	36313599.43	0.2633	0.1062

Mercury	94712-12-11 09:36 G	36314251.79	36314251.90	36314252.01	0.2635	0.0148
Mercury	94716-06-15 05:02 G	36315533.58	36315533.71	36315533.84	0.2698	0.1470
Venus	94719-02-25 10:48 G	36316518.87	36316518.95	36316519.04	0.2632	0.2197
Mercury	94725-12-14 03:07 G	36319002.54	36319002.63	36319002.72	0.2634	0.1540
Mercury	94732-12-07 03:50 G	36321552.62	36321552.66	36321552.70	0.2637	0.2412
Mercury	94745-12-09 21:07 G	36326303.28	36326303.38	36326303.48	0.2636	0.1013
Mercury	94749-06-13 03:50 G	36327584.52	36327584.66	36327584.80	0.2697	0.1244
Mercury	94758-12-12 14:24 G	36331053.99	36331054.10	36331054.21	0.2635	0.0404
Mercury	94762-06-16 11:31 G	36332335.89	36332335.98	36332336.08	0.2698	0.2079
Mercury	94771-12-15 07:55 G	36335804.75	36335804.83	36335804.91	0.2634	0.1828
Mercury	94778-12-08 08:24 G	36338354.79	36338354.85	36338354.92	0.2637	0.2132
Mercury	94791-12-11 01:55 G	36343105.47	36343105.58	36343105.68	0.2636	0.0736
Mercury	94795-06-14 10:33 G	36344386.79	36344386.94	36344387.10	0.2697	0.0623
Mercury	94804-12-12 19:12 G	36347856.20	36347856.30	36347856.41	0.2635	0.0687
Mercury	94808-06-16 18:14 G	36349138.26	36349138.26	36349138.27	0.2698	0.2692
Mercury	94817-12-15 12:43 G	36352606.97	36352607.03	36352607.10	0.2634	0.2117
Venus	94824-08-27 13:41 G	36355053.99	36355054.07	36355054.15	0.2700	0.2283
Mercury	94824-12-08 13:12 G	36355156.98	36355157.05	36355157.13	0.2637	0.1852
Venus	94832-08-25 04:05 G	36357973.53	36357973.67	36357973.80	0.2701	0.1363
Mercury	94837-12-11 06:29 G	36359907.67	36359907.77	36359907.88	0.2636	0.0458
Mercury	94841-06-14 17:31 G	36361189.07	36361189.23	36361189.38	0.2697	0.0073
Mercury	94850-12-14 00:00 G	36364658.40	36364658.50	36364658.60	0.2635	0.0974
Mercury	94863-12-16 17:31 G	36369409.19	36369409.23	36369409.27	0.2634	0.2407
Mercury	94870-12-09 18:00 G	36371959.16	36371959.25	36371959.34	0.2637	0.1567
Mercury	94883-12-12 11:17 G	36376709.86	36376709.97	36376710.08	0.2636	0.0194
Mercury	94887-06-16 00:14 G	36377991.36	36377991.51	36377991.66	0.2697	0.0646
Mercury	94896-12-14 04:48 G	36381460.61	36381460.70	36381460.80	0.2635	0.1264
Mercury	94916-12-10 22:48 G	36388761.35	36388761.45	36388761.54	0.2637	0.1285
Mercury	94920-06-13 23:02 G	36390042.36	36390042.46	36390042.56	0.2696	0.2093
Mercury	94929-12-13 16:05 G	36393512.06	36393512.17	36393512.28	0.2636	0.0156

Mercury	94933-06-17 06:57 G	36394793.65	36394793.79	36394793.93	0.2697	0.1262
Mercury	94942-12-16 09:36 G	36398262.81	36398262.90	36398262.99	0.2635	0.1551
Mercury	94949-12-09 10:19 G	36400812.88	36400812.93	36400812.97	0.2637	0.2400
Venus	94954-02-28 21:07 G	36402355.24	36402355.38	36402355.52	0.2632	0.1267
Venus	94962-02-26 12:57 G	36405274.94	36405275.04	36405275.14	0.2632	0.1997
Mercury	94962-12-12 03:36 G	36405563.55	36405563.65	36405563.75	0.2636	0.1003
Mercury	94966-06-15 05:45 G	36406844.61	36406844.74	36406844.87	0.2696	0.1469
Mercury	94975-12-14 20:53 G	36410314.27	36410314.37	36410314.48	0.2635	0.0423
Mercury	94979-06-18 13:41 G	36411595.96	36411596.07	36411596.18	0.2698	0.1883
Mercury	94988-12-16 14:24 G	36415065.02	36415065.10	36415065.18	0.2635	0.1842
Mercury	94995-12-10 15:07 G	36417615.06	36417615.13	36417615.19	0.2637	0.2125

96TH MILLENNIUM CE

This is a list of transits visible from Earth in the 96th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	95008-12-13 08:24 G	36422365.74	36422365.85	36422365.95	0.2636	0.0719		
Mercury	95012-06-16 12:29 G	36423646.87	36423647.02	36423647.17	0.2696	0.0833		
Mercury	95021-12-16 01:41 G	36427116.47	36427116.57	36427116.68	0.2635	0.0708		
Mercury	95025-06-19 20:24 G	36428398.29	36428398.35	36428398.40	0.2698	0.2500		
Mercury	95034-12-18 19:12 G	36431867.24	36431867.30	36431867.36	0.2634	0.2132		
Mercury	95041-12-11 19:41 G	36434417.25	36434417.32	36434417.40	0.2637	0.1841		
Mercury	95054-12-14 13:12 G	36439167.94	36439168.05	36439168.16	0.2636	0.0438		
Mercury	95058-06-17 19:26 G	36440449.15	36440449.31	36440449.46	0.2697	0.0211		

Venus	95067-08-30 14:09 G	36443810.01	36443810.09	36443810.18	0.2700	0.2262
Mercury	95067-12-17 06:29 G	36443918.67	36443918.77	36443918.87	0.2635	0.0992
Venus	95075-08-28 04:33 G	36446729.56	36446729.69	36446729.83	0.2701	0.1367
Mercury	95080-12-19 00:00 G	36448669.46	36448669.50	36448669.54	0.2634	0.2425
Mercury	95087-12-13 00:29 G	36451219.43	36451219.52	36451219.61	0.2637	0.1561
Mercury	95100-12-15 18:00 G	36455970.14	36455970.25	36455970.36	0.2636	0.0178
Mercury	95104-06-19 01:55 G	36457251.43	36457251.58	36457251.74	0.2697	0.0430
Mercury	95113-12-18 11:17 G	36460720.88	36460720.97	36460721.07	0.2635	0.1278
Mercury	95133-12-14 05:17 G	36468021.63	36468021.72	36468021.82	0.2637	0.1275
Mercury	95137-06-17 00:43 G	36469302.46	36469302.53	36469302.61	0.2696	0.2336
Mercury	95146-12-16 22:33 G	36472772.33	36472772.44	36472772.55	0.2636	0.0174
Mercury	95150-06-20 08:53 G	36474053.72	36474053.87	36474054.01	0.2697	0.1051
Mercury	95159-12-19 16:05 G	36477523.08	36477523.17	36477523.26	0.2635	0.1566
Mercury	95166-12-12 16:48 G	36480073.15	36480073.20	36480073.24	0.2638	0.2394
Mercury	95179-12-15 10:05 G	36484823.82	36484823.92	36484824.02	0.2637	0.0990
Mercury	95183-06-18 07:41 G	36486104.70	36486104.82	36486104.94	0.2696	0.1684
Mercury	95192-12-17 03:21 G	36489574.53	36489574.64	36489574.75	0.2636	0.0435
Mercury	95196-06-20 15:36 G	36490856.03	36490856.15	36490856.27	0.2697	0.1678
Venus	95197-03-02 22:48 G	36491111.32	36491111.45	36491111.59	0.2632	0.1432
Venus	95205-02-28 14:38 G	36494031.00	36494031.11	36494031.23	0.2631	0.1842
Mercury	95205-12-19 20:53 G	36494325.29	36494325.37	36494325.45	0.2635	0.1854
Mercury	95212-12-12 21:36 G	36496875.33	36496875.40	36496875.46	0.2638	0.2113
Mercury	95225-12-15 14:53 G	36501626.01	36501626.12	36501626.23	0.2637	0.0704
Mercury	95229-06-18 14:24 G	36502906.96	36502907.10	36502907.25	0.2696	0.1056
Mercury	95238-12-18 08:09 G	36506376.74	36506376.84	36506376.95	0.2636	0.0716
Mercury	95242-06-21 22:19 G	36507658.36	36507658.43	36507658.51	0.2697	0.2318
Mercury	95251-12-21 01:41 G	36511127.51	36511127.57	36511127.63	0.2635	0.2149
Mercury	95258-12-14 02:24 G	36513677.52	36513677.60	36513677.67	0.2638	0.1833
Mercury	95271-12-16 19:41 G	36518428.21	36518428.32	36518428.43	0.2636	0.0423
Mercury	95275-06-19 21:07 G	36519709.23	36519709.38	36519709.54	0.2696	0.0423

Mercury	95284-12-18 12:57 G	36523178.94	36523179.04	36523179.14	0.2635	0.1005
Mercury	95297-12-21 06:29 G	36527929.73	36527929.77	36527929.81	0.2635	0.2439
Mercury	95304-12-15 06:57 G	36530479.71	36530479.79	36530479.88	0.2637	0.1549
Venus	95310-09-01 14:38 G	36532566.03	36532566.11	36532566.20	0.2701	0.2243
Mercury	95317-12-18 00:29 G	36535230.41	36535230.52	36535230.63	0.2636	0.0161
Venus	95318-08-30 05:17 G	36535485.59	36535485.72	36535485.86	0.2702	0.1387
Mercury	95321-06-21 04:05 G	36536511.51	36536511.67	36536511.82	0.2696	0.0224
Mercury	95330-12-20 17:45 G	36539981.14	36539981.24	36539981.33	0.2635	0.1293
Mercury	95350-12-16 11:45 G	36547281.90	36547281.99	36547282.09	0.2637	0.1265
Mercury	95354-06-19 02:38 G	36548562.56	36548562.61	36548562.66	0.2695	0.2564
Mercury	95363-12-19 05:02 G	36552032.60	36552032.71	36552032.82	0.2636	0.0182
Mercury	95367-06-22 10:48 G	36553313.80	36553313.95	36553314.10	0.2696	0.0846
Mercury	95376-12-20 22:33 G	36556783.35	36556783.44	36556783.53	0.2635	0.1583
Mercury	95383-12-14 23:17 G	36559333.43	36559333.47	36559333.51	0.2638	0.2386
Mercury	95396-12-16 16:33 G	36564084.09	36564084.19	36564084.29	0.2637	0.0978
Mercury	95400-06-20 09:21 G	36565364.78	36565364.89	36565365.00	0.2695	0.1933
Mercury	95409-12-20 09:50 G	36568834.80	36568834.91	36568835.02	0.2636	0.0444
Mercury	95413-06-23 17:31 G	36570116.10	36570116.23	36570116.36	0.2697	0.1482
Mercury	95422-12-23 03:21 G	36573585.56	36573585.64	36573585.71	0.2635	0.1875
Mercury	95429-12-16 04:05 G	36576135.61	36576135.67	36576135.73	0.2638	0.2104
Venus	95440-03-05 00:57 G	36579867.42	36579867.54	36579867.67	0.2632	0.1638
Mercury	95442-12-18 21:21 G	36580886.28	36580886.39	36580886.49	0.2637	0.0698
Mercury	95446-06-21 16:19 G	36582167.04	36582167.18	36582167.32	0.2696	0.1280
Venus	95448-03-02 16:48 G	36582787.07	36582787.20	36582787.32	0.2631	0.1653
Mercury	95455-12-21 14:38 G	36585637.00	36585637.11	36585637.22	0.2636	0.0729
Mercury	95459-06-25 00:14 G	36586918.41	36586918.51	36586918.61	0.2697	0.2102
Mercury	95468-12-23 08:09 G	36590387.78	36590387.84	36590387.90	0.2635	0.2165
Mercury	95475-12-17 08:53 G	36592937.79	36592937.87	36592937.95	0.2638	0.1819
Mercury	95488-12-19 02:09 G	36597688.48	36597688.59	36597688.70	0.2637	0.0415
Mercury	95492-06-21 23:02 G	36598969.31	36598969.46	36598969.61	0.2696	0.0643

Mercury	95501-12-22 19:26 G	36602439.21	36602439.31	36602439.41	0.2636	0.1015
Mercury	95514-12-25 12:57 G	36607190.00	36607190.04	36607190.07	0.2635	0.2458
Mercury	95521-12-18 13:41 G	36609739.98	36609740.07	36609740.15	0.2638	0.1537
Mercury	95534-12-21 06:57 G	36614490.68	36614490.79	36614490.90	0.2637	0.0159
Mercury	95538-06-24 06:00 G	36615771.59	36615771.75	36615771.90	0.2696	0.0066
Mercury	95547-12-24 00:14 G	36619241.42	36619241.51	36619241.61	0.2636	0.1310
Venus	95553-09-03 15:36 G	36621322.07	36621322.15	36621322.24	0.2701	0.2252
Venus	95561-09-01 06:14 G	36624241.62	36624241.76	36624241.89	0.2702	0.1374
Mercury	95567-12-19 18:14 G	36626542.17	36626542.26	36626542.36	0.2638	0.1251
Mercury	95580-12-21 11:31 G	36631292.88	36631292.98	36631293.09	0.2637	0.0201
Mercury	95584-06-24 12:43 G	36632573.87	36632574.03	36632574.18	0.2696	0.0642
Mercury	95593-12-24 05:02 G	36636043.62	36636043.71	36636043.80	0.2636	0.1602
Mercury	95600-12-17 05:45 G	36638593.70	36638593.74	36638593.79	0.2638	0.2375
Mercury	95613-12-19 23:02 G	36643344.36	36643344.46	36643344.56	0.2637	0.0967
Mercury	95617-06-22 11:16 G	36644624.88	36644624.97	36644625.07	0.2695	0.2146
Mercury	95626-12-22 16:19 G	36648095.08	36648095.18	36648095.29	0.2636	0.0466
Mercury	95630-06-25 19:26 G	36649376.17	36649376.31	36649376.45	0.2696	0.1276
Mercury	95639-12-25 09:50 G	36652845.83	36652845.91	36652845.98	0.2635	0.1895
Mercury	95646-12-18 10:33 G	36655395.87	36655395.94	36655396.00	0.2638	0.2091
Mercury	95659-12-21 03:50 G	36660146.55	36660146.66	36660146.77	0.2637	0.0679
Mercury	95663-06-23 18:00 G	36661427.12	36661427.25	36661427.38	0.2695	0.1512
Mercury	95672-12-22 21:07 G	36664897.28	36664897.38	36664897.49	0.2636	0.0750
Mercury	95676-06-26 02:09 G	36666178.48	36666178.59	36666178.70	0.2696	0.1912
Venus	95683-03-07 02:38 G	36668623.50	36668623.61	36668623.73	0.2631	0.1796
Mercury	95685-12-25 14:38 G	36669648.05	36669648.11	36669648.17	0.2635	0.2185
Venus	95691-03-04 18:28 G	36671543.13	36671543.27	36671543.40	0.2630	0.1491
Mercury	95692-12-18 15:21 G	36672198.06	36672198.14	36672198.22	0.2638	0.1809
Mercury	95705-12-22 08:38 G	36676948.75	36676948.86	36676948.97	0.2637	0.0394
Mercury	95709-06-25 00:57 G	36678229.39	36678229.54	36678229.69	0.2695	0.0866
Mercury	95718-12-25 01:55 G	36681699.48	36681699.58	36681699.68	0.2636	0.1040

Mercury	95722-06-28 08:52 G	36682980.82	36682980.87	36682980.92	0.2697	0.2541
Mercury	95731-12-27 19:26 G	36686450.27	36686450.31	36686450.34	0.2635	0.2478
Mercury	95738-12-20 19:55 G	36689000.25	36689000.33	36689000.42	0.2638	0.1530
Mercury	95751-12-23 13:26 G	36693750.95	36693751.06	36693751.17	0.2637	0.0120
Mercury	95755-06-26 07:40 G	36695031.66	36695031.82	36695031.98	0.2696	0.0221
Mercury	95764-12-25 06:43 G	36698501.69	36698501.78	36698501.88	0.2636	0.1327
Mercury	95784-12-21 00:43 G	36705802.44	36705802.53	36705802.63	0.2638	0.1244
Venus	95796-09-04 16:19 G	36710078.09	36710078.18	36710078.27	0.2701	0.2219
Mercury	95797-12-23 18:14 G	36710553.15	36710553.26	36710553.37	0.2637	0.0201
Mercury	95801-06-27 14:24 G	36711833.95	36711834.10	36711834.26	0.2696	0.0437
Venus	95804-09-03 07:12 G	36712997.66	36712997.80	36712997.93	0.2702	0.1381
Mercury	95810-12-27 11:31 G	36715303.89	36715303.98	36715304.06	0.2636	0.1618
Mercury	95817-12-20 12:14 G	36717853.97	36717854.01	36717854.06	0.2639	0.2362
Mercury	95830-12-23 05:31 G	36722604.63	36722604.73	36722604.84	0.2638	0.0954
Mercury	95834-06-25 12:57 G	36723884.97	36723885.04	36723885.11	0.2694	0.2384
Mercury	95843-12-25 23:02 G	36727355.35	36727355.46	36727355.56	0.2637	0.0485
Mercury	95847-06-28 21:21 G	36728636.24	36728636.39	36728636.53	0.2696	0.1072
Mercury	95856-12-27 16:19 G	36732106.10	36732106.18	36732106.25	0.2636	0.1908
Mercury	95863-12-21 17:02 G	36734656.15	36734656.21	36734656.28	0.2639	0.2080
Mercury	95876-12-23 10:19 G	36739406.83	36739406.93	36739407.04	0.2638	0.0665
Mercury	95880-06-25 19:55 G	36740687.21	36740687.33	36740687.45	0.2695	0.1730
Mercury	95889-12-26 03:36 G	36744157.55	36744157.65	36744157.76	0.2637	0.0770
Mercury	95893-06-29 04:04 G	36745438.55	36745438.67	36745438.79	0.2696	0.1714
Mercury	95902-12-29 21:07 G	36748908.32	36748908.38	36748908.43	0.2636	0.2205
Mercury	95909-12-22 21:50 G	36751458.33	36751458.41	36751458.49	0.2639	0.1796
Mercury	95922-12-25 15:07 G	36756209.02	36756209.13	36756209.24	0.2637	0.0376
Venus	95926-03-10 04:33 G	36757379.59	36757379.69	36757379.80	0.2631	0.1991
Mercury	95926-06-28 02:38 G	36757489.47	36757489.61	36757489.76	0.2695	0.1082
Venus	95934-03-07 20:09 G	36760299.20	36760299.34	36760299.48	0.2630	0.1320
Mercury	95935-12-28 08:24 G	36760959.75	36760959.85	36760959.95	0.2636	0.1056

Mercury	95939-07-01 11:02 G	36762240.88	36762240.96	36762241.03	0.2696	0.2358
Mercury	95948-12-30 01:55 G	36765710.54	36765710.58	36765710.61	0.2635	0.2501
Mercury	95955-12-24 02:38 G	36768260.52	36768260.61	36768260.70	0.2638	0.1510
Mercury	95968-12-25 19:55 G	36773011.22	36773011.33	36773011.44	0.2637	0.0094
Mercury	95972-06-28 09:36 G	36774291.74	36774291.90	36774292.06	0.2695	0.0428
Mercury	95981-12-28 13:12 G	36777761.96	36777762.05	36777762.14	0.2636	0.1346
Mercury	95988-12-21 14:09 G	36780312.09	36780312.09	36780312.09	0.2639	0.2636

97TH MILLENNIUM CE

This is a list of transits visible from Earth in the 97th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	96001-12-24 07:26 G		36785062.71	36785062.81	36785062.90	0.2638	0.1225	
Mercury	96014-12-27 00:43 G		36789813.42	36789813.53	36789813.64	0.2637	0.0216	
Mercury	96018-06-29 16:19 G		36791094.02	36791094.18	36791094.34	0.2695	0.0209	
Mercury	96027-12-29 18:00 G		36794564.16	36794564.25	36794564.33	0.2636	0.1636	
Mercury	96034-12-22 18:57 G		36797114.24	36797114.29	36797114.33	0.2639	0.2355	
Venus	96039-09-07 17:31 G		36798834.14	36798834.23	36798834.31	0.2702	0.2254	
Venus	96047-09-05 08:09 G		36801753.71	36801753.84	36801753.98	0.2703	0.1365	
Mercury	96047-12-25 12:14 G		36801864.90	36801865.01	36801865.11	0.2638	0.0942	
Mercury	96051-06-27 14:52 G		36803145.08	36803145.12	36803145.15	0.2694	0.2618	
Mercury	96060-12-27 05:16 G		36806615.62	36806615.72	36806615.83	0.2637	0.0499	
Mercury	96064-06-29 23:02 G		36807896.31	36807896.46	36807896.61	0.2695	0.0859	
Mercury	96073-12-29 22:48 G		36811366.37	36811366.45	36811366.52	0.2636	0.1931	

Mercury	96080-12-22 23:45 G	36813916.42	36813916.49	36813916.55	0.2639	0.2070
Mercury	96093-12-25 16:48 G	36818667.10	36818667.20	36818667.31	0.2638	0.0654
Mercury	96097-06-27 21:36 G	36819947.29	36819947.40	36819947.51	0.2694	0.1959
Mercury	96106-12-29 10:04 G	36823417.82	36823417.92	36823418.03	0.2637	0.0782
Mercury	96110-07-02 06:00 G	36824698.62	36824698.75	36824698.88	0.2696	0.1508
Mercury	96120-01-01 03:36 G	36828168.59	36828168.65	36828168.70	0.2636	0.2223
Mercury	96126-12-25 04:19 G	36830718.60	36830718.68	36830718.76	0.2639	0.1783
Mercury	96139-12-27 21:36 G	36835469.29	36835469.40	36835469.51	0.2638	0.0361
Mercury	96143-06-30 04:33 G	36836749.55	36836749.69	36836749.83	0.2694	0.1301
Mercury	96152-12-29 14:52 G	36840220.02	36840220.12	36840220.22	0.2637	0.1071
Mercury	96156-07-02 12:43 G	36841500.94	36841501.03	36841501.12	0.2696	0.2154
Mercury	96166-01-01 08:24 G	36844970.82	36844970.85	36844970.88	0.2636	0.2517
Venus	96169-03-11 06:14 G	36846135.67	36846135.76	36846135.85	0.2630	0.2154
Mercury	96172-12-25 09:07 G	36847520.79	36847520.88	36847520.97	0.2639	0.1493
Venus	96177-03-08 21:50 G	36849055.26	36849055.41	36849055.55	0.2630	0.1155
Mercury	96185-12-28 02:24 G	36852271.49	36852271.60	36852271.71	0.2638	0.0077
Mercury	96189-06-30 11:16 G	36853551.82	36853551.97	36853552.12	0.2695	0.0658
Mercury	96198-12-30 19:40 G	36857022.23	36857022.32	36857022.41	0.2637	0.1365
Mercury	96205-12-24 20:38 G	36859572.35	36859572.36	36859572.37	0.2640	0.2624
Mercury	96218-12-27 13:55 G	36864322.98	36864323.08	36864323.18	0.2639	0.1209
Mercury	96231-12-30 07:12 G	36869073.69	36869073.80	36869073.91	0.2637	0.0229
Mercury	96235-07-02 18:00 G	36870354.10	36870354.25	36870354.41	0.2695	0.0081
Mercury	96245-01-01 00:28 G	36873824.44	36873824.52	36873824.61	0.2636	0.1659
Mercury	96251-12-26 01:26 G	36876374.51	36876374.56	36876374.61	0.2640	0.2340
Mercury	96264-12-27 18:43 G	36881125.17	36881125.28	36881125.38	0.2638	0.0927
Mercury	96277-12-30 12:00 G	36885875.89	36885876.00	36885876.10	0.2637	0.0514
Mercury	96281-07-03 00:57 G	36887156.39	36887156.54	36887156.69	0.2695	0.0653
Venus	96282-09-09 18:14 G	36887590.17	36887590.26	36887590.35	0.2702	0.2229
Venus	96290-09-07 09:07 G	36890509.75	36890509.88	36890510.02	0.2703	0.1359
Mercury	96291-01-02 05:16 G	36890626.65	36890626.72	36890626.79	0.2636	0.1952

Mercury	96297-12-26 06:14 G	36893176.69	36893176.76	36893176.82	0.2639	0.2059
Mercury	96310-12-29 23:16 G	36897927.37	36897927.47	36897927.58	0.2638	0.0639
Mercury	96314-07-01 23:16 G	36899207.38	36899207.47	36899207.56	0.2694	0.2200
Mercury	96324-01-01 16:48 G	36902678.09	36902678.20	36902678.30	0.2637	0.0806
Mercury	96327-07-05 07:40 G	36903958.68	36903958.82	36903958.96	0.2695	0.1297
Mercury	96337-01-03 10:04 G	36907428.86	36907428.92	36907428.97	0.2636	0.2244
Mercury	96343-12-28 10:48 G	36909978.87	36909978.95	36909979.03	0.2639	0.1770
Mercury	96356-12-30 04:04 G	36914729.56	36914729.67	36914729.78	0.2638	0.0350
Mercury	96360-07-02 06:00 G	36916009.62	36916009.75	36916009.88	0.2694	0.1547
Mercury	96370-01-01 21:21 G	36919480.29	36919480.39	36919480.49	0.2637	0.1093
Mercury	96373-07-05 14:24 G	36920761.00	36920761.10	36920761.21	0.2695	0.1941
Mercury	96383-01-04 14:52 G	36924231.09	36924231.12	36924231.14	0.2636	0.2538
Mercury	96389-12-28 15:36 G	36926781.06	36926781.15	36926781.24	0.2639	0.1485
Mercury	96402-12-31 08:52 G	36931531.76	36931531.87	36931531.98	0.2638	0.0061
Mercury	96406-07-03 12:57 G	36932811.89	36932812.04	36932812.19	0.2694	0.0880
Venus	96412-03-13 07:55 G	36934891.76	36934891.83	36934891.90	0.2630	0.2319
Mercury	96416-01-03 02:09 G	36936282.50	36936282.59	36936282.68	0.2637	0.1383
Mercury	96419-07-06 21:21 G	36937563.35	36937563.39	36937563.43	0.2696	0.2590
Venus	96420-03-10 23:16 G	36937811.32	36937811.47	36937811.62	0.2629	0.1007
Mercury	96422-12-27 03:07 G	36938832.62	36938832.63	36938832.64	0.2640	0.2613
Mercury	96435-12-29 20:24 G	36943583.25	36943583.35	36943583.45	0.2639	0.1193
Mercury	96448-12-31 13:40 G	36948333.96	36948334.07	36948334.18	0.2638	0.0234
Mercury	96452-07-03 19:55 G	36949614.17	36949614.33	36949614.49	0.2694	0.0218
Mercury	96462-01-03 06:57 G	36953084.71	36953084.79	36953084.87	0.2637	0.1675
Mercury	96468-12-27 07:55 G	36955634.78	36955634.83	36955634.88	0.2640	0.2327
Mercury	96481-12-30 01:12 G	36960385.45	36960385.55	36960385.65	0.2639	0.0907
Mercury	96495-01-01 18:28 G	36965136.16	36965136.27	36965136.38	0.2638	0.0529
Mercury	96498-07-05 02:38 G	36966416.46	36966416.61	36966416.77	0.2695	0.0440
Mercury	96508-01-05 11:45 G	36969886.92	36969886.99	36969887.06	0.2637	0.1969
Mercury	96514-12-29 12:43 G	36972436.96	36972437.03	36972437.10	0.2640	0.2040

Venus	96525-09-11 19:26 G	36976346.22	36976346.31	36976346.39	0.2703	0.2248
Mercury	96528-01-01 06:00 G	36977187.64	36977187.75	36977187.85	0.2638	0.0619
Mercury	96531-07-04 00:57 G	36978467.47	36978467.54	36978467.60	0.2693	0.2435
Venus	96533-09-09 10:19 G	36979265.80	36979265.93	36979266.07	0.2703	0.1343
Mercury	96541-01-02 23:16 G	36981938.36	36981938.47	36981938.57	0.2637	0.0822
Mercury	96544-07-06 09:36 G	36983218.75	36983218.90	36983219.04	0.2695	0.1089
Mercury	96554-01-05 16:33 G	36986689.13	36986689.19	36986689.24	0.2637	0.2266
Mercury	96560-12-29 17:31 G	36989239.15	36989239.23	36989239.31	0.2639	0.1757
Mercury	96574-01-01 10:48 G	36993989.84	36993989.95	36993990.05	0.2638	0.0341
Mercury	96577-07-04 07:55 G	36995269.71	36995269.83	36995269.95	0.2693	0.1764
Mercury	96587-01-04 03:50 G	36998740.56	36998740.66	36998740.76	0.2637	0.1116
Mercury	96590-07-07 16:19 G	37000021.06	37000021.18	37000021.30	0.2695	0.1744
Mercury	96600-01-06 21:21 G	37003491.36	37003491.39	37003491.41	0.2636	0.2560
Mercury	96606-12-31 22:04 G	37006041.33	37006041.42	37006041.51	0.2639	0.1471
Mercury	96620-01-03 15:21 G	37010792.03	37010792.14	37010792.25	0.2638	0.0077
Mercury	96623-07-06 14:38 G	37012071.97	37012072.11	37012072.26	0.2694	0.1111
Mercury	96633-01-05 08:38 G	37015542.77	37015542.86	37015542.95	0.2637	0.1403
Mercury	96636-07-08 23:16 G	37016823.40	37016823.47	37016823.54	0.2695	0.2403
Mercury	96639-12-30 09:50 G	37018092.89	37018092.91	37018092.92	0.2640	0.2605
Mercury	96653-01-01 02:52 G	37022843.53	37022843.62	37022843.72	0.2639	0.1184
Venus	96655-03-16 09:21 G	37023647.84	37023647.89	37023647.94	0.2630	0.2481
Venus	96663-03-14 00:43 G	37026567.38	37026567.53	37026567.69	0.2629	0.0855
Mercury	96666-01-03 20:09 G	37027594.23	37027594.34	37027594.45	0.2638	0.0251
Mercury	96669-07-06 21:36 G	37028874.24	37028874.40	37028874.56	0.2694	0.0446
Mercury	96679-01-06 13:26 G	37032344.98	37032345.06	37032345.14	0.2637	0.1695
Mercury	96685-12-30 14:24 G	37034895.05	37034895.10	37034895.15	0.2640	0.2317
Mercury	96699-01-02 07:40 G	37039645.72	37039645.82	37039645.92	0.2639	0.0891
Mercury	96712-01-06 00:57 G	37044396.43	37044396.54	37044396.64	0.2638	0.0544
Mercury	96715-07-09 04:19 G	37045676.53	37045676.68	37045676.84	0.2694	0.0224
Mercury	96725-01-07 18:14 G	37049147.19	37049147.26	37049147.33	0.2637	0.1988

Mercury	96732-01-01 19:12 G	37051697.23	37051697.30	37051697.37	0.2640	0.2027
Mercury	96745-01-03 12:28 G	37056447.91	37056448.02	37056448.12	0.2639	0.0603
Mercury	96748-07-06 02:38 G	37057727.59	37057727.61	37057727.64	0.2693	0.2656
Mercury	96758-01-06 05:45 G	37061198.63	37061198.74	37061198.84	0.2638	0.0842
Mercury	96761-07-09 11:16 G	37062478.82	37062478.97	37062479.12	0.2694	0.0881
Venus	96768-09-13 20:24 G	37065102.27	37065102.35	37065102.44	0.2703	0.2247
Mercury	96771-01-08 23:02 G	37065949.41	37065949.46	37065949.51	0.2637	0.2283
Venus	96776-09-11 11:31 G	37068021.84	37068021.98	37068022.11	0.2704	0.1340
Mercury	96778-01-02 00:00 G	37068499.42	37068499.50	37068499.58	0.2640	0.1740
Mercury	96791-01-04 17:16 G	37073250.11	37073250.22	37073250.32	0.2639	0.0325
Mercury	96794-07-07 09:36 G	37074529.79	37074529.90	37074530.00	0.2693	0.2002
Mercury	96804-01-07 10:19 G	37078000.84	37078000.93	37078001.03	0.2638	0.1133
Mercury	96807-07-10 18:14 G	37079281.13	37079281.26	37079281.39	0.2695	0.1544
Mercury	96817-01-09 03:50 G	37082751.64	37082751.66	37082751.68	0.2637	0.2581
Mercury	96824-01-03 04:48 G	37085301.61	37085301.70	37085301.79	0.2640	0.1454
Mercury	96837-01-04 21:50 G	37090052.30	37090052.41	37090052.52	0.2639	0.0068
Mercury	96840-07-07 16:33 G	37091332.05	37091332.19	37091332.32	0.2693	0.1328
Mercury	96850-01-07 15:07 G	37094803.04	37094803.13	37094803.22	0.2638	0.1426
Mercury	96853-07-11 00:57 G	37096083.45	37096083.54	37096083.63	0.2695	0.2187
Mercury	96856-12-31 16:19 G	37097353.16	37097353.18	37097353.20	0.2641	0.2588
Mercury	96870-01-03 09:21 G	37102103.80	37102103.89	37102103.99	0.2639	0.1167
Mercury	96883-01-06 02:38 G	37106854.50	37106854.61	37106854.72	0.2638	0.0272
Mercury	96886-07-08 23:16 G	37108134.31	37108134.47	37108134.62	0.2694	0.0671
Mercury	96896-01-08 19:55 G	37111605.25	37111605.33	37111605.41	0.2637	0.1716
Venus	96898-03-17 10:48 G	37112403.94	37112403.95	37112403.95	0.2629	0.2626
Mercury	96903-01-02 21:07 G	37114155.33	37114155.38	37114155.43	0.2640	0.2303
Venus	96906-03-16 01:55 G	37115323.43	37115323.58	37115323.74	0.2629	0.0723
Mercury	96916-01-05 14:09 G	37118905.99	37118906.09	37118906.19	0.2639	0.0876
Mercury	96929-01-07 07:26 G	37123656.70	37123656.81	37123656.92	0.2638	0.0564
Mercury	96932-07-10 06:00 G	37124936.59	37124936.75	37124936.91	0.2694	0.0078

Mercury	96942-01-10 00:43 G	37128407.46	37128407.53	37128407.60	0.2637	0.2013
Mercury	96949-01-03 01:40 G	37130957.50	37130957.57	37130957.64	0.2640	0.2019
Mercury	96962-01-05 18:57 G	37135708.18	37135708.29	37135708.39	0.2639	0.0587
Mercury	96975-01-08 12:14 G	37140458.91	37140459.01	37140459.11	0.2638	0.0856
Mercury	96978-07-11 12:57 G	37141738.88	37141739.04	37141739.19	0.2694	0.0654
Mercury	96988-01-11 05:31 G	37145209.68	37145209.73	37145209.78	0.2637	0.2307
Mercury	96995-01-04 06:28 G	37147759.69	37147759.77	37147759.85	0.2640	0.1728

98TH MILLENNIUM CE

This is a list of transits visible from Earth in the 98th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	97008-01-07 23:45 G		37152510.38	37152510.49	37152510.60	0.2639	0.0307	
Mercury	97011-07-10 11:02 G		37153789.88	37153789.96	37153790.05	0.2693	0.2234	
Venus	97011-09-16 21:36 G		37153858.32	37153858.40	37153858.49	0.2703	0.2249	
Venus	97019-09-14 12:43 G		37156777.90	37156778.03	37156778.17	0.2704	0.1311	
Mercury	97021-01-09 17:02 G		37157261.11	37157261.21	37157261.30	0.2638	0.1151	
Mercury	97024-07-12 19:40 G		37158541.19	37158541.32	37158541.46	0.2694	0.1317	
Mercury	97034-01-12 10:19 G		37162011.91	37162011.93	37162011.94	0.2637	0.2602	
Mercury	97041-01-05 11:16 G		37164561.88	37164561.97	37164562.06	0.2640	0.1437	
Mercury	97054-01-08 04:33 G		37169312.58	37169312.69	37169312.80	0.2639	0.0094	
Mercury	97057-07-10 18:00 G		37170592.12	37170592.25	37170592.38	0.2693	0.1568	
Mercury	97067-01-10 21:36 G		37174063.31	37174063.40	37174063.50	0.2638	0.1444	
Mercury	97070-07-14 02:38 G		37175343.50	37175343.61	37175343.72	0.2694	0.1984	

Mercury	97074-01-03 22:48 G	37176613.43	37176613.45	37176613.47	0.2641	0.2574
Mercury	97087-01-06 16:04 G	37181364.07	37181364.17	37181364.26	0.2640	0.1149
Mercury	97100-01-09 09:07 G	37186114.78	37186114.88	37186114.99	0.2639	0.0310
Mercury	97103-07-13 00:57 G	37187394.39	37187394.54	37187394.69	0.2693	0.0891
Mercury	97113-01-12 02:24 G	37190865.52	37190865.60	37190865.68	0.2638	0.1741
Mercury	97116-07-15 09:36 G	37192145.87	37192145.90	37192145.92	0.2695	0.2645
Mercury	97120-01-06 03:36 G	37193415.60	37193415.65	37193415.70	0.2641	0.2289
Mercury	97133-01-07 20:38 G	37198166.26	37198166.36	37198166.47	0.2640	0.0862
Mercury	97146-01-10 13:55 G	37202916.98	37202917.08	37202917.19	0.2639	0.0588
Venus	97149-03-18 03:21 G	37204079.49	37204079.64	37204079.80	0.2629	0.0575
Mercury	97149-07-13 07:40 G	37204196.66	37204196.82	37204196.98	0.2693	0.0238
Mercury	97159-01-13 07:12 G	37207667.73	37207667.80	37207667.87	0.2638	0.2033
Mercury	97166-01-06 08:24 G	37210217.78	37210217.85	37210217.91	0.2641	0.2003
Mercury	97179-01-09 01:26 G	37214968.46	37214968.56	37214968.67	0.2639	0.0571
Mercury	97192-01-11 18:43 G	37219719.18	37219719.28	37219719.38	0.2638	0.0876
Mercury	97195-07-14 14:38 G	37220998.95	37220999.11	37220999.27	0.2693	0.0447
Mercury	97205-01-13 12:00 G	37224469.95	37224470.00	37224470.05	0.2637	0.2330
Mercury	97212-01-07 12:57 G	37227019.96	37227020.04	37227020.12	0.2641	0.1711
Mercury	97225-01-09 06:14 G	37231770.65	37231770.76	37231770.87	0.2639	0.0274
Mercury	97228-07-11 12:43 G	37233049.97	37233050.03	37233050.09	0.2692	0.2482
Mercury	97238-01-11 23:31 G	37236521.38	37236521.48	37236521.58	0.2638	0.1170
Mercury	97241-07-14 21:35 G	37237801.25	37237801.40	37237801.54	0.2694	0.1107
Mercury	97251-01-14 16:48 G	37241272.19	37241272.20	37241272.20	0.2637	0.2624
Venus	97254-09-17 22:48 G	37242614.37	37242614.45	37242614.54	0.2703	0.2273
Mercury	97258-01-07 17:45 G	37243822.15	37243822.24	37243822.33	0.2640	0.1421
Venus	97262-09-15 14:09 G	37245533.95	37245534.09	37245534.23	0.2704	0.1303
Mercury	97271-01-10 11:02 G	37248572.85	37248572.96	37248573.07	0.2639	0.0044
Mercury	97274-07-12 19:40 G	37249852.20	37249852.32	37249852.44	0.2692	0.1799
Mercury	97284-01-13 04:04 G	37253323.58	37253323.67	37253323.76	0.2638	0.1469
Mercury	97287-07-16 04:19 G	37254603.56	37254603.68	37254603.80	0.2694	0.1771

Mercury	97291-01-06 05:16 G	37255873.70	37255873.72	37255873.75	0.2641	0.2563
Mercury	97304-01-09 22:33 G	37260624.34	37260624.44	37260624.54	0.2640	0.1133
Mercury	97317-01-11 15:50 G	37265375.05	37265375.16	37265375.26	0.2639	0.0329
Mercury	97320-07-14 02:38 G	37266654.46	37266654.61	37266654.75	0.2693	0.1131
Mercury	97330-01-14 08:52 G	37270125.79	37270125.87	37270125.95	0.2638	0.1759
Mercury	97333-07-17 11:16 G	37271405.91	37271405.97	37271406.03	0.2694	0.2442
Mercury	97337-01-07 10:04 G	37272675.87	37272675.92	37272675.97	0.2641	0.2272
Mercury	97350-01-10 03:21 G	37277426.53	37277426.64	37277426.74	0.2640	0.0841
Mercury	97363-01-12 20:24 G	37282177.25	37282177.35	37282177.46	0.2639	0.0602
Mercury	97366-07-15 09:35 G	37283456.74	37283456.90	37283457.05	0.2693	0.0444
Mercury	97376-01-15 13:40 G	37286928.00	37286928.07	37286928.14	0.2638	0.2054
Mercury	97383-01-08 14:52 G	37289478.05	37289478.12	37289478.19	0.2641	0.1980
Venus	97392-03-19 04:19 G	37292835.53	37292835.68	37292835.84	0.2628	0.0463
Mercury	97396-01-11 07:55 G	37294228.73	37294228.83	37294228.94	0.2640	0.0557
Mercury	97409-01-14 01:11 G	37298979.45	37298979.55	37298979.65	0.2639	0.0897
Mercury	97412-07-16 16:19 G	37300259.02	37300259.18	37300259.34	0.2693	0.0225
Mercury	97422-01-16 18:28 G	37303730.22	37303730.27	37303730.32	0.2638	0.2348
Mercury	97429-01-09 19:40 G	37306280.24	37306280.32	37306280.40	0.2641	0.1693
Mercury	97442-01-12 12:43 G	37311030.92	37311031.03	37311031.14	0.2640	0.0259
Mercury	97455-01-15 06:00 G	37315781.65	37315781.75	37315781.85	0.2639	0.1194
Mercury	97458-07-17 23:16 G	37317061.32	37317061.47	37317061.62	0.2693	0.0900
Mercury	97475-01-11 00:14 G	37323082.42	37323082.51	37323082.61	0.2641	0.1407
Mercury	97488-01-13 17:31 G	37327833.12	37327833.23	37327833.34	0.2639	0.0043
Mercury	97491-07-15 21:21 G	37329112.28	37329112.39	37329112.49	0.2692	0.2030
Venus	97497-09-20 00:14 G	37331370.43	37331370.51	37331370.59	0.2704	0.2287
Mercury	97501-01-16 10:48 G	37332583.86	37332583.95	37332584.04	0.2638	0.1490
Mercury	97504-07-19 06:00 G	37333863.63	37333863.75	37333863.88	0.2694	0.1575
Venus	97505-09-18 15:35 G	37334290.01	37334290.15	37334290.29	0.2704	0.1261
Mercury	97508-01-10 12:00 G	37335133.97	37335134.00	37335134.02	0.2642	0.2546
Mercury	97521-01-12 05:02 G	37339884.61	37339884.71	37339884.81	0.2640	0.1113

Mercury	97534-01-14 22:19 G	37344635.32	37344635.43	37344635.53	0.2639	0.0340
Mercury	97537-07-17 04:19 G	37345914.54	37345914.68	37345914.81	0.2692	0.1348
Mercury	97547-01-17 15:35 G	37349386.07	37349386.15	37349386.22	0.2638	0.1786
Mercury	97550-07-20 12:57 G	37350665.95	37350666.04	37350666.13	0.2694	0.2239
Mercury	97554-01-10 16:48 G	37351936.14	37351936.20	37351936.25	0.2642	0.2258
Mercury	97567-01-13 09:50 G	37356686.80	37356686.91	37356687.01	0.2640	0.0822
Mercury	97580-01-16 02:52 G	37361437.52	37361437.62	37361437.73	0.2639	0.0632
Mercury	97583-07-18 11:02 G	37362716.80	37362716.96	37362717.11	0.2692	0.0681
Mercury	97593-01-17 20:09 G	37366188.28	37366188.34	37366188.41	0.2638	0.2081
Mercury	97600-01-11 21:21 G	37368738.32	37368738.39	37368738.46	0.2641	0.1969
Mercury	97613-01-13 14:38 G	37373489.00	37373489.11	37373489.21	0.2640	0.0539
Mercury	97626-01-16 07:40 G	37378239.72	37378239.82	37378239.92	0.2639	0.0921
Mercury	97629-07-18 18:00 G	37379519.09	37379519.25	37379519.41	0.2693	0.0036
Venus	97635-03-22 05:45 G	37381591.58	37381591.74	37381591.90	0.2628	0.0308
Mercury	97639-01-19 00:57 G	37382990.50	37382990.54	37382990.59	0.2638	0.2378
Mercury	97646-01-12 02:09 G	37385540.51	37385540.59	37385540.67	0.2641	0.1676
Mercury	97659-01-14 19:11 G	37390291.19	37390291.30	37390291.41	0.2640	0.0249
Mercury	97672-01-17 12:28 G	37395041.93	37395042.02	37395042.12	0.2639	0.1215
Mercury	97675-07-20 00:57 G	37396321.38	37396321.54	37396321.69	0.2693	0.0686
Mercury	97692-01-13 06:57 G	37402342.69	37402342.79	37402342.88	0.2641	0.1388
Mercury	97705-01-16 00:00 G	37407093.39	37407093.50	37407093.61	0.2640	0.0075
Mercury	97708-07-17 22:48 G	37408372.37	37408372.45	37408372.54	0.2692	0.2257
Mercury	97718-01-18 17:16 G	37411844.13	37411844.22	37411844.31	0.2639	0.1510
Mercury	97721-07-21 07:40 G	37413123.69	37413123.82	37413123.96	0.2693	0.1363
Mercury	97725-01-11 18:28 G	37414394.24	37414394.27	37414394.30	0.2642	0.2529
Mercury	97738-01-14 11:31 G	37419144.88	37419144.98	37419145.08	0.2641	0.1094
Venus	97740-09-22 01:55 G	37420126.50	37420126.58	37420126.65	0.2704	0.2313
Venus	97748-09-19 17:16 G	37423046.08	37423046.22	37423046.36	0.2704	0.1231
Mercury	97751-01-17 04:48 G	37423895.59	37423895.70	37423895.81	0.2640	0.0355
Mercury	97754-07-19 05:45 G	37425174.61	37425174.74	37425174.87	0.2692	0.1582

Mercury	97764-01-19 22:04 G	37428646.34	37428646.42	37428646.50	0.2639	0.1810
Mercury	97767-07-22 14:38 G	37429926.01	37429926.11	37429926.21	0.2693	0.2027
Mercury	97771-01-12 23:16 G	37431196.41	37431196.47	37431196.52	0.2642	0.2240
Mercury	97784-01-15 16:19 G	37435947.08	37435947.18	37435947.29	0.2641	0.0801
Mercury	97797-01-17 09:35 G	37440697.79	37440697.90	37440698.00	0.2639	0.0651
Mercury	97800-07-20 12:43 G	37441976.88	37441977.03	37441977.18	0.2692	0.0895
Mercury	97810-01-21 02:52 G	37445448.55	37445448.62	37445448.68	0.2638	0.2110
Mercury	97817-01-14 03:50 G	37447998.59	37447998.66	37447998.74	0.2642	0.1952
Mercury	97830-01-16 21:07 G	37452749.27	37452749.38	37452749.49	0.2640	0.0507
Mercury	97843-01-19 14:24 G	37457499.99	37457500.10	37457500.20	0.2639	0.0947
Mercury	97846-07-21 19:40 G	37458779.15	37458779.32	37458779.48	0.2692	0.0232
Mercury	97856-01-22 07:26 G	37462250.77	37462250.81	37462250.86	0.2638	0.2404
Mercury	97863-01-15 08:38 G	37464800.78	37464800.86	37464800.94	0.2641	0.1660
Mercury	97876-01-18 01:55 G	37469551.47	37469551.58	37469551.69	0.2640	0.0221
Venus	97878-03-24 06:43 G	37470347.61	37470347.78	37470347.94	0.2628	0.0217
Mercury	97889-01-19 18:57 G	37474302.20	37474302.29	37474302.39	0.2639	0.1240
Mercury	97892-07-22 02:24 G	37475581.45	37475581.60	37475581.76	0.2692	0.0465
Mercury	97909-01-16 13:26 G	37481602.97	37481603.06	37481603.15	0.2641	0.1365
Mercury	97922-01-19 06:43 G	37486353.67	37486353.78	37486353.88	0.2640	0.0135
Mercury	97925-07-21 00:14 G	37487632.46	37487632.51	37487632.57	0.2691	0.2504
Mercury	97935-01-21 23:45 G	37491104.40	37491104.49	37491104.58	0.2639	0.1534
Mercury	97938-07-24 09:21 G	37492383.74	37492383.89	37492384.03	0.2693	0.1134
Mercury	97942-01-15 00:57 G	37493654.51	37493654.54	37493654.57	0.2642	0.2511
Mercury	97955-01-17 18:14 G	37498405.16	37498405.26	37498405.36	0.2641	0.1073
Mercury	97968-01-20 11:16 G	37503155.87	37503155.97	37503156.08	0.2640	0.0383
Mercury	97971-07-22 07:26 G	37504434.69	37504434.81	37504434.93	0.2691	0.1804
Mercury	97981-01-22 04:33 G	37507906.61	37507906.69	37507906.76	0.2639	0.1832
Venus	97983-09-25 03:21 G	37508882.56	37508882.64	37508882.71	0.2704	0.2346
Mercury	97984-07-24 16:19 G	37509186.06	37509186.18	37509186.30	0.2693	0.1822
Mercury	97988-01-16 05:45 G	37510456.68	37510456.74	37510456.80	0.2642	0.2221

Venus 97991-09-22 18:43 G 37511802.14 37511802.28 37511802.42 0.2705 0.1205

99TH MILLENNIUM CE

This is a list of transits visible from Earth in the 99th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	98001-01-17 23:02	G	37515207.35	37515207.46	37515207.56	0.2641	0.0783	
Mercury	98014-01-20 16:04	G	37519958.06	37519958.17	37519958.27	0.2640	0.0671	
Mercury	98017-07-22 14:09	G	37521236.95	37521237.09	37521237.24	0.2692	0.1124	
Mercury	98027-01-23 09:21	G	37524708.82	37524708.89	37524708.95	0.2639	0.2131	
Mercury	98030-07-25 23:16	G	37525988.41	37525988.47	37525988.52	0.2693	0.2509	
Mercury	98034-01-16 10:33	G	37527258.87	37527258.94	37527259.01	0.2642	0.1928	
Mercury	98047-01-19 03:35	G	37532009.55	37532009.65	37532009.76	0.2641	0.0491	
Mercury	98060-01-21 20:52	G	37536760.27	37536760.37	37536760.47	0.2640	0.0972	
Mercury	98063-07-23 21:07	G	37538039.23	37538039.38	37538039.54	0.2692	0.0441	
Mercury	98073-01-23 13:55	G	37541511.04	37541511.08	37541511.12	0.2639	0.2429	
Mercury	98080-01-17 15:21	G	37544061.05	37544061.14	37544061.22	0.2642	0.1637	
Mercury	98093-01-19 08:24	G	37548811.74	37548811.85	37548811.96	0.2641	0.0188	
Mercury	98106-01-23 01:26	G	37553562.47	37553562.56	37553562.66	0.2639	0.1267	
Mercury	98109-07-25 04:04	G	37554841.51	37554841.67	37554841.83	0.2692	0.0243	
Venus	98121-03-26 07:40	G	37559103.66	37559103.82	37559103.98	0.2628	0.0082	
Mercury	98126-01-18 19:55	G	37560863.24	37560863.33	37560863.43	0.2642	0.1348	
Mercury	98139-01-21 13:11	G	37565613.94	37565614.05	37565614.16	0.2640	0.0123	
Mercury	98152-01-24 06:14	G	37570364.68	37570364.76	37570364.85	0.2639	0.1564	

Mercury	98155-07-26 11:02 G	37571643.81	37571643.96	37571644.11	0.2692	0.0931
Mercury	98159-01-17 07:40 G	37572914.79	37572914.82	37572914.85	0.2643	0.2498
Mercury	98172-01-20 00:43 G	37577665.43	37577665.53	37577665.63	0.2641	0.1052
Mercury	98185-01-21 17:45 G	37582416.14	37582416.24	37582416.35	0.2640	0.0406
Mercury	98188-07-23 08:52 G	37583694.76	37583694.87	37583694.97	0.2691	0.2050
Mercury	98198-01-24 11:02 G	37587166.89	37587166.96	37587167.04	0.2639	0.1858
Mercury	98201-07-27 18:00 G	37588446.12	37588446.25	37588446.37	0.2692	0.1614
Mercury	98205-01-18 12:28 G	37589716.96	37589717.02	37589717.07	0.2642	0.2204
Mercury	98218-01-21 05:31 G	37594467.62	37594467.73	37594467.83	0.2641	0.0764
Venus	98226-09-27 05:02 G	37597638.63	37597638.71	37597638.78	0.2704	0.2367
Mercury	98231-01-23 22:33 G	37599218.34	37599218.44	37599218.55	0.2640	0.0693
Mercury	98234-07-25 15:50 G	37600497.02	37600497.16	37600497.30	0.2691	0.1355
Venus	98234-09-24 20:38 G	37600558.22	37600558.36	37600558.50	0.2705	0.1145
Mercury	98244-01-26 15:50 G	37603969.10	37603969.16	37603969.22	0.2639	0.2155
Mercury	98247-07-29 00:43 G	37605248.45	37605248.53	37605248.61	0.2693	0.2287
Mercury	98251-01-19 17:02 G	37606519.14	37606519.21	37606519.29	0.2642	0.1911
Mercury	98264-01-22 10:04 G	37611269.82	37611269.92	37611270.03	0.2641	0.0473
Mercury	98277-01-24 03:21 G	37616020.54	37616020.64	37616020.74	0.2640	0.0989
Mercury	98280-07-25 22:33 G	37617299.29	37617299.44	37617299.60	0.2691	0.0672
Mercury	98290-01-26 20:38 G	37620771.32	37620771.36	37620771.39	0.2639	0.2453
Mercury	98297-01-19 21:50 G	37623321.32	37623321.41	37623321.49	0.2642	0.1615
Mercury	98310-01-23 14:52 G	37628072.01	37628072.12	37628072.23	0.2641	0.0174
Mercury	98323-01-26 08:09 G	37632822.74	37632822.84	37632822.93	0.2640	0.1290
Mercury	98326-07-28 05:45 G	37634101.58	37634101.74	37634101.90	0.2692	0.0058
Mercury	98343-01-22 02:38 G	37640123.51	37640123.61	37640123.70	0.2642	0.1329
Mercury	98356-01-24 19:40 G	37644874.21	37644874.32	37644874.43	0.2641	0.0130
Venus	98364-03-28 08:24 G	37647859.69	37647859.85	37647860.02	0.2628	0.0057
Mercury	98369-01-26 12:57 G	37649624.95	37649625.04	37649625.12	0.2640	0.1590
Mercury	98372-07-28 12:28 G	37650903.87	37650904.02	37650904.18	0.2692	0.0720
Mercury	98376-01-20 14:09 G	37652175.06	37652175.09	37652175.13	0.2643	0.2475

Mercury	98389-01-22 07:11 G	37656925.70	37656925.80	37656925.90	0.2642	0.1033
Mercury	98402-01-25 00:28 G	37661676.41	37661676.52	37661676.63	0.2641	0.0425
Mercury	98405-07-26 10:19 G	37662954.85	37662954.93	37662955.02	0.2690	0.2272
Mercury	98415-01-27 17:31 G	37666427.16	37666427.23	37666427.31	0.2640	0.1888
Mercury	98418-07-29 19:26 G	37667706.18	37667706.31	37667706.45	0.2692	0.1401
Mercury	98422-01-20 18:57 G	37668977.23	37668977.29	37668977.35	0.2643	0.2185
Mercury	98435-01-23 12:00 G	37673727.90	37673728.00	37673728.10	0.2642	0.0735
Mercury	98448-01-26 05:16 G	37678478.61	37678478.72	37678478.82	0.2640	0.0727
Mercury	98451-07-27 17:16 G	37679757.09	37679757.22	37679757.35	0.2691	0.1586
Mercury	98461-01-27 22:19 G	37683229.37	37683229.43	37683229.49	0.2639	0.2181
Mercury	98464-07-30 02:24 G	37684508.50	37684508.60	37684508.70	0.2692	0.2084
Mercury	98468-01-21 23:31 G	37685779.41	37685779.48	37685779.56	0.2643	0.1894
Venus	98469-09-28 06:43 G	37686394.71	37686394.78	37686394.85	0.2704	0.2407
Venus	98477-09-25 22:19 G	37689314.28	37689314.43	37689314.57	0.2705	0.1136
Mercury	98481-01-23 16:48 G	37690530.09	37690530.20	37690530.30	0.2641	0.0445
Mercury	98494-01-26 09:50 G	37695280.81	37695280.91	37695281.01	0.2640	0.1020
Mercury	98497-07-28 00:14 G	37696559.36	37696559.51	37696559.66	0.2691	0.0888
Mercury	98507-01-30 03:07 G	37700031.59	37700031.63	37700031.66	0.2639	0.2484
Mercury	98514-01-23 04:19 G	37702581.60	37702581.68	37702581.77	0.2642	0.1602
Mercury	98527-01-25 21:35 G	37707332.29	37707332.40	37707332.50	0.2641	0.0185
Mercury	98540-01-28 14:38 G	37712083.02	37712083.11	37712083.20	0.2640	0.1313
Mercury	98543-07-30 07:11 G	37713361.64	37713361.80	37713361.96	0.2691	0.0209
Mercury	98560-01-24 09:07 G	37719383.79	37719383.88	37719383.97	0.2642	0.1304
Mercury	98573-01-26 02:09 G	37724134.48	37724134.59	37724134.70	0.2641	0.0166
Mercury	98586-01-28 19:26 G	37728885.22	37728885.31	37728885.39	0.2640	0.1612
Mercury	98589-07-30 14:09 G	37730163.93	37730164.09	37730164.25	0.2691	0.0493
Mercury	98593-01-21 20:38 G	37731435.33	37731435.36	37731435.40	0.2643	0.2458
Mercury	98606-01-25 13:55 G	37736185.98	37736186.08	37736186.18	0.2642	0.1010
Venus	98607-03-31 09:21 G	37736615.72	37736615.89	37736616.05	0.2628	0.0138
Mercury	98619-01-28 06:57 G	37740936.68	37740936.79	37740936.90	0.2641	0.0450

Mercury	98622-07-29 11:45 G	37742214.94	37742214.99	37742215.05	0.2690	0.2511
Mercury	98632-01-31 00:00 G	37745687.43	37745687.50	37745687.58	0.2640	0.1909
Mercury	98635-08-01 21:07 G	37746966.23	37746966.38	37746966.52	0.2692	0.1184
Mercury	98639-01-24 01:26 G	37748237.50	37748237.56	37748237.62	0.2643	0.2165
Mercury	98652-01-26 18:28 G	37752988.17	37752988.27	37752988.38	0.2642	0.0720
Mercury	98665-01-28 11:45 G	37757738.88	37757738.99	37757739.09	0.2641	0.0747
Mercury	98668-07-29 18:57 G	37759017.17	37759017.29	37759017.40	0.2690	0.1810
Mercury	98678-01-31 04:48 G	37762489.64	37762489.70	37762489.76	0.2640	0.2212
Mercury	98681-08-02 04:04 G	37763768.55	37763768.67	37763768.78	0.2692	0.1874
Mercury	98685-01-24 06:14 G	37765039.68	37765039.76	37765039.83	0.2643	0.1872
Mercury	98698-01-26 23:16 G	37769790.36	37769790.47	37769790.58	0.2642	0.0420
Mercury	98711-01-30 16:19 G	37774541.08	37774541.18	37774541.28	0.2640	0.1048
Venus	98712-10-01 08:24 G	37775150.78	37775150.85	37775150.91	0.2705	0.2436
Mercury	98714-08-01 01:40 G	37775819.43	37775819.57	37775819.72	0.2690	0.1124
Venus	98720-09-29 00:14 G	37778070.37	37778070.51	37778070.65	0.2705	0.1065
Mercury	98724-02-02 09:35 G	37779291.87	37779291.90	37779291.93	0.2639	0.2509
Mercury	98727-08-04 10:48 G	37780570.91	37780570.95	37780571.00	0.2692	0.2566
Mercury	98731-01-26 11:02 G	37781841.87	37781841.96	37781842.04	0.2643	0.1579
Mercury	98744-01-29 04:04 G	37786592.56	37786592.67	37786592.78	0.2641	0.0127
Mercury	98757-01-30 21:07 G	37791343.29	37791343.38	37791343.47	0.2640	0.1338
Mercury	98760-08-01 08:38 G	37792621.70	37792621.86	37792622.02	0.2691	0.0424
Mercury	98777-01-26 15:35 G	37798644.06	37798644.15	37798644.25	0.2643	0.1284
Mercury	98790-01-29 08:38 G	37803394.76	37803394.86	37803394.97	0.2641	0.0207
Mercury	98803-02-01 01:55 G	37808145.49	37808145.58	37808145.66	0.2640	0.1638
Mercury	98806-08-02 15:35 G	37809423.99	37809424.15	37809424.31	0.2691	0.0263
Mercury	98810-01-25 03:21 G	37810695.60	37810695.64	37810695.68	0.2644	0.2442
Mercury	98823-01-27 20:24 G	37815446.25	37815446.35	37815446.45	0.2642	0.0988
Mercury	98836-01-30 13:26 G	37820196.95	37820197.06	37820197.17	0.2641	0.0472
Mercury	98849-02-01 06:43 G	37824947.70	37824947.78	37824947.85	0.2640	0.1940
Venus	98850-04-01 09:50 G	37825371.75	37825371.91	37825372.07	0.2627	0.0222

Mercury	98852-08-02 22:33 G	37826226.29	37826226.44	37826226.59	0.2691	0.0959
Mercury	98856-01-26 08:09 G	37827497.77	37827497.84	37827497.90	0.2644	0.2147
Mercury	98869-01-28 01:11 G	37832248.44	37832248.55	37832248.65	0.2642	0.0699
Mercury	98882-01-30 18:14 G	37836999.15	37836999.26	37836999.36	0.2641	0.0769
Mercury	98885-07-31 20:09 G	37838277.24	37838277.34	37838277.45	0.2690	0.2053
Mercury	98895-02-02 11:16 G	37841749.92	37841749.97	37841750.03	0.2640	0.2238
Mercury	98898-08-04 05:31 G	37843028.60	37843028.73	37843028.85	0.2692	0.1655
Mercury	98902-01-27 12:43 G	37844299.96	37844300.03	37844300.11	0.2643	0.1849
Mercury	98915-01-30 05:45 G	37849050.64	37849050.74	37849050.85	0.2642	0.0401
Mercury	98928-02-01 23:02 G	37853801.36	37853801.46	37853801.56	0.2641	0.1068
Mercury	98931-08-03 03:21 G	37855079.50	37855079.64	37855079.78	0.2690	0.1343
Mercury	98941-02-03 16:04 G	37858552.15	37858552.17	37858552.20	0.2640	0.2535
Mercury	98944-08-05 12:28 G	37859830.94	37859831.02	37859831.09	0.2692	0.2352
Mercury	98948-01-28 17:31 G	37861102.14	37861102.23	37861102.32	0.2643	0.1553
Venus	98955-10-03 10:19 G	37863906.87	37863906.93	37863906.99	0.2705	0.2476
Mercury	98961-01-30 10:33 G	37865852.83	37865852.94	37865853.05	0.2642	0.0096
Venus	98963-10-01 01:55 G	37866826.44	37866826.58	37866826.73	0.2705	0.1042
Mercury	98974-02-02 03:35 G	37870603.56	37870603.65	37870603.75	0.2641	0.1374
Mercury	98977-08-03 10:04 G	37871881.77	37871881.92	37871882.08	0.2690	0.0656
Mercury	98994-01-28 22:19 G	37877904.33	37877904.43	37877904.52	0.2643	0.1264

100TH MILLENNIUM CE

This is a list of transits visible from Earth in the 100th millennium CE.

PLANET	MAX- TRANSIT	C	START	MAX	END	SUNRAD	DEPTH	S
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TIME

Mercury	99007-02-01 15:21 G	37882655.03	37882655.14	37882655.25	0.2642	0.0207
Mercury	99020-02-04 08:23 G	37887405.77	37887405.85	37887405.94	0.2641	0.1669
Mercury	99023-08-05 17:02 G	37888684.05	37888684.21	37888684.37	0.2690	0.0070
Mercury	99027-01-28 09:50 G	37889955.87	37889955.91	37889955.95	0.2644	0.2420
Mercury	99040-01-31 02:52 G	37894706.52	37894706.62	37894706.72	0.2643	0.0966
Mercury	99053-02-01 20:09 G	37899457.23	37899457.34	37899457.44	0.2641	0.0509
Mercury	99066-02-04 13:11 G	37904207.98	37904208.05	37904208.12	0.2640	0.1967
Mercury	99069-08-05 23:59 G	37905486.35	37905486.50	37905486.66	0.2691	0.0747
Mercury	99073-01-28 14:38 G	37906758.05	37906758.11	37906758.17	0.2644	0.2125
Mercury	99086-01-31 07:40 G	37911508.71	37911508.82	37911508.92	0.2642	0.0669
Venus	99093-04-03 10:33 G	37914127.78	37914127.94	37914128.10	0.2627	0.0302
Mercury	99099-02-03 00:43 G	37916259.43	37916259.53	37916259.64	0.2641	0.0798
Mercury	99102-08-04 21:35 G	37917537.32	37917537.40	37917537.49	0.2689	0.2286
Mercury	99112-02-06 17:59 G	37921010.19	37921010.25	37921010.30	0.2640	0.2265
Mercury	99115-08-08 06:57 G	37922288.66	37922288.79	37922288.93	0.2691	0.1448
Mercury	99119-01-30 19:11 G	37923560.23	37923560.30	37923560.38	0.2644	0.1833
Mercury	99132-02-02 12:28 G	37928310.91	37928311.02	37928311.12	0.2642	0.0383
Mercury	99145-02-04 05:31 G	37933061.63	37933061.73	37933061.83	0.2641	0.1095
Mercury	99148-08-05 04:33 G	37934339.56	37934339.69	37934339.82	0.2690	0.1590
Mercury	99158-02-06 22:33 G	37937812.42	37937812.44	37937812.47	0.2640	0.2566
Mercury	99161-08-08 13:55 G	37939090.98	37939091.08	37939091.18	0.2691	0.2135
Mercury	99165-01-30 23:59 G	37940362.41	37940362.50	37940362.59	0.2643	0.1535
Mercury	99178-02-02 17:02 G	37945113.11	37945113.21	37945113.32	0.2642	0.0126
Mercury	99191-02-05 10:19 G	37949863.84	37949863.93	37949864.02	0.2641	0.1394
Mercury	99194-08-06 11:45 G	37951141.83	37951141.99	37951142.14	0.2690	0.0875
Venus	99198-10-05 11:59 G	37952662.95	37952663.00	37952663.06	0.2705	0.2517
Venus	99206-10-03 04:04 G	37955582.53	37955582.67	37955582.82	0.2705	0.0980
Mercury	99211-02-01 04:47 G	37957164.60	37957164.70	37957164.79	0.2643	0.1236
Mercury	99224-02-03 21:50 G	37961915.30	37961915.41	37961915.52	0.2642	0.0228

Mercury	99237-02-05 14:52 G	37966666.04	37966666.12	37966666.21	0.2641	0.1696
Mercury	99240-08-06 18:43 G	37967944.12	37967944.28	37967944.44	0.2690	0.0178
Mercury	99244-01-30 16:19 G	37969216.14	37969216.18	37969216.23	0.2644	0.2397
Mercury	99257-02-01 09:35 G	37973966.80	37973966.90	37973967.00	0.2643	0.0942
Mercury	99270-02-04 02:38 G	37978717.50	37978717.61	37978717.72	0.2642	0.0526
Mercury	99283-02-06 19:40 G	37983468.25	37983468.32	37983468.39	0.2641	0.1994
Mercury	99286-08-08 01:40 G	37984746.41	37984746.57	37984746.73	0.2690	0.0539
Mercury	99290-01-30 21:07 G	37986018.32	37986018.38	37986018.45	0.2644	0.2103
Mercury	99303-02-03 14:09 G	37990768.99	37990769.09	37990769.20	0.2643	0.0648
Mercury	99316-02-06 07:26 G	37995519.70	37995519.81	37995519.91	0.2642	0.0831
Mercury	99319-08-06 23:02 G	37996797.41	37996797.46	37996797.52	0.2689	0.2514
Mercury	99329-02-08 00:28 G	38000270.47	38000270.52	38000270.57	0.2640	0.2297
Mercury	99332-08-09 08:23 G	38001548.71	38001548.85	38001549.00	0.2691	0.1227
Mercury	99336-02-02 01:55 G	38002820.50	38002820.58	38002820.66	0.2644	0.1807
Venus	99336-04-05 11:02 G	38002883.80	38002883.96	38002884.12	0.2627	0.0391
Mercury	99349-02-03 18:57 G	38007571.18	38007571.29	38007571.40	0.2643	0.0346
Mercury	99362-02-06 11:59 G	38012321.91	38012322.00	38012322.10	0.2641	0.1127
Mercury	99365-08-07 06:14 G	38013599.64	38013599.76	38013599.88	0.2689	0.1798
Mercury	99375-02-09 05:16 G	38017072.70	38017072.72	38017072.73	0.2640	0.2599
Mercury	99378-08-10 15:21 G	38018351.03	38018351.14	38018351.26	0.2691	0.1931
Mercury	99382-02-02 06:43 G	38019622.69	38019622.78	38019622.86	0.2644	0.1514
Mercury	99395-02-04 23:45 G	38024373.38	38024373.49	38024373.60	0.2642	0.0079
Mercury	99408-02-08 16:47 G	38029124.11	38029124.20	38029124.29	0.2641	0.1423
Mercury	99411-08-09 13:11 G	38030401.90	38030402.05	38030402.19	0.2689	0.1106
Mercury	99424-08-11 22:19 G	38035153.40	38035153.43	38035153.46	0.2691	0.2632
Mercury	99428-02-04 11:16 G	38036424.88	38036424.97	38036425.07	0.2643	0.1216
Mercury	99441-02-06 04:19 G	38041175.58	38041175.68	38041175.79	0.2642	0.0266
Venus	99441-10-07 14:09 G	38041419.05	38041419.09	38041419.14	0.2705	0.2568
Venus	99449-10-05 05:59 G	38044338.61	38044338.75	38044338.90	0.2705	0.0928
Mercury	99454-02-08 21:35 G	38045926.31	38045926.40	38045926.48	0.2641	0.1725

Mercury	99457-08-09 20:09 G	38047204.18	38047204.34	38047204.50	0.2690	0.0402
Mercury	99461-02-01 23:02 G	38048476.41	38048476.46	38048476.50	0.2645	0.2376
Mercury	99474-02-04 16:04 G	38053227.07	38053227.17	38053227.27	0.2643	0.0914
Mercury	99487-02-07 09:07 G	38057977.77	38057977.88	38057977.99	0.2642	0.0552
Mercury	99500-02-10 02:09 G	38062728.53	38062728.59	38062728.66	0.2641	0.2025
Mercury	99503-08-12 02:52 G	38064006.46	38064006.62	38064006.78	0.2690	0.0302
Mercury	99507-02-04 03:50 G	38065278.59	38065278.66	38065278.72	0.2644	0.2079
Mercury	99520-02-06 20:52 G	38070029.26	38070029.37	38070029.47	0.2643	0.0619
Mercury	99533-02-08 13:55 G	38074779.98	38074780.08	38074780.18	0.2642	0.0854
Mercury	99546-02-11 06:57 G	38079530.74	38079530.79	38079530.84	0.2641	0.2326
Mercury	99549-08-12 10:04 G	38080808.77	38080808.92	38080809.07	0.2690	0.1018
Mercury	99553-02-04 08:23 G	38082080.78	38082080.85	38082080.93	0.2644	0.1784
Mercury	99566-02-07 01:26 G	38086831.46	38086831.56	38086831.67	0.2643	0.0324
Mercury	99579-02-09 18:28 G	38091582.18	38091582.27	38091582.37	0.2642	0.1159
Venus	99579-04-08 11:31 G	38091639.82	38091639.98	38091640.14	0.2627	0.0462
Mercury	99582-08-10 07:26 G	38092859.71	38092859.81	38092859.92	0.2689	0.2039
Mercury	99592-02-12 11:45 G	38096332.98	38096332.99	38096333.00	0.2641	0.2629
Mercury	99595-08-13 17:02 G	38097611.08	38097611.21	38097611.33	0.2690	0.1723
Mercury	99599-02-05 13:11 G	38098882.96	38098883.05	38098883.14	0.2644	0.1481
Mercury	99612-02-08 06:14 G	38103633.65	38103633.76	38103633.87	0.2643	0.0019
Mercury	99625-02-09 23:16 G	38108384.38	38108384.47	38108384.56	0.2642	0.1457
Mercury	99628-08-10 14:38 G	38109661.97	38109662.11	38109662.25	0.2689	0.1330
Mercury	99641-08-13 23:59 G	38114413.43	38114413.50	38114413.56	0.2691	0.2425
Mercury	99645-02-05 17:59 G	38115685.15	38115685.25	38115685.34	0.2644	0.1188
Mercury	99658-02-08 11:02 G	38120435.85	38120435.96	38120436.06	0.2643	0.0291
Mercury	99671-02-11 04:04 G	38125186.59	38125186.67	38125186.75	0.2641	0.1756
Mercury	99674-08-11 21:21 G	38126464.24	38126464.39	38126464.55	0.2689	0.0627
Mercury	99678-02-04 05:31 G	38127736.69	38127736.73	38127736.78	0.2645	0.2353
Venus	99684-10-08 16:04 G	38130175.14	38130175.17	38130175.21	0.2705	0.2613
Mercury	99691-02-06 22:33 G	38132487.34	38132487.44	38132487.54	0.2644	0.0889

Venus	99692-10-06 08:23 G	38133094.70	38133094.85	38133094.99	0.2705	0.0872
Mercury	99704-02-10 15:35 G	38137238.05	38137238.15	38137238.26	0.2642	0.0593
Mercury	99717-02-12 08:52 G	38141988.80	38141988.87	38141988.94	0.2641	0.2059
Mercury	99720-08-13 04:33 G	38143266.53	38143266.69	38143266.85	0.2689	0.0098
Mercury	99724-02-06 10:19 G	38144538.86	38144538.93	38144539.00	0.2645	0.2058
Mercury	99737-02-08 03:21 G	38149289.53	38149289.64	38149289.74	0.2643	0.0591
Mercury	99750-02-10 20:23 G	38154040.25	38154040.35	38154040.45	0.2642	0.0883
Mercury	99763-02-13 13:26 G	38158791.02	38158791.06	38158791.11	0.2641	0.2361
Mercury	99766-08-14 11:31 G	38160068.82	38160068.98	38160069.13	0.2690	0.0795
Mercury	99770-02-06 15:07 G	38161341.05	38161341.13	38161341.21	0.2644	0.1757
Mercury	99783-02-09 08:09 G	38166091.73	38166091.84	38166091.94	0.2643	0.0303
Mercury	99796-02-12 01:11 G	38170842.45	38170842.55	38170842.65	0.2642	0.1181
Mercury	99799-08-12 08:52 G	38172119.79	38172119.87	38172119.96	0.2688	0.2270
Mercury	99812-08-15 18:28 G	38176871.13	38176871.27	38176871.40	0.2690	0.1504
Mercury	99816-02-08 19:40 G	38178143.23	38178143.32	38178143.41	0.2644	0.1459
Venus	99822-04-10 11:59 G	38180395.84	38180396.00	38180396.16	0.2627	0.0540
Mercury	99829-02-10 12:43 G	38182893.93	38182894.03	38182894.14	0.2643	0.0104
Mercury	99842-02-13 05:59 G	38187644.66	38187644.75	38187644.84	0.2642	0.1486
Mercury	99845-08-13 15:50 G	38188922.03	38188922.16	38188922.30	0.2689	0.1556
Mercury	99849-02-06 07:26 G	38190194.80	38190194.81	38190194.82	0.2645	0.2625
Mercury	99858-08-17 01:26 G	38193673.47	38193673.56	38193673.65	0.2690	0.2211
Mercury	99862-02-09 00:28 G	38194945.42	38194945.52	38194945.62	0.2644	0.1157
Mercury	99875-02-11 17:31 G	38199696.12	38199696.23	38199696.34	0.2643	0.0317
Mercury	99888-02-14 10:33 G	38204446.87	38204446.94	38204447.02	0.2642	0.1791
Mercury	99891-08-14 23:02 G	38205724.31	38205724.46	38205724.61	0.2689	0.0832
Mercury	99895-02-07 12:14 G	38206996.96	38206997.01	38206997.05	0.2645	0.2329
Mercury	99908-02-11 05:16 G	38211747.62	38211747.72	38211747.82	0.2644	0.0863
Mercury	99921-02-12 22:19 G	38216498.32	38216498.43	38216498.53	0.2643	0.0615
Venus	99927-10-12 18:28 G	38218931.26	38218931.27	38218931.28	0.2705	0.2689
Mercury	99934-02-15 15:21 G	38221249.08	38221249.14	38221249.20	0.2641	0.2090

Venus	99935-10-10 10:33 G	38221850.79	38221850.94	38221851.09	0.2705	0.0798
Mercury	99937-08-16 05:59 G	38222526.59	38222526.75	38222526.91	0.2689	0.0135
Mercury	99941-02-08 16:47 G	38223799.13	38223799.20	38223799.27	0.2645	0.2029
Mercury	99954-02-11 09:50 G	38228549.81	38228549.91	38228550.02	0.2644	0.0571
Mercury	99967-02-14 03:07 G	38233300.52	38233300.63	38233300.73	0.2642	0.0916
Mercury	99980-02-16 20:09 G	38238051.29	38238051.34	38238051.38	0.2641	0.2393
Mercury	99983-08-17 12:57 G	38239328.88	38239329.04	38239329.20	0.2689	0.0587
Mercury	99987-02-09 21:35 G	38240601.32	38240601.40	38240601.48	0.2645	0.1731
Mercury	100000-02-12 14:38 G	38245352.00	38245352.11	38245352.22	0.2643	0.0263

101ST MILLENNIUM CE

This is a list of transits visible from Earth in the 101st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	100013-02-14 07:40 G		38250102.73	38250102.82	38250102.92	0.2642	0.1218	
Mercury	100016-08-14 10:19 G		38251379.88	38251379.93	38251379.99	0.2688	0.2497	
Mercury	100029-08-17 19:55 G		38256131.19	38256131.33	38256131.47	0.2690	0.1293	
Mercury	100033-02-10 02:23 G		38257403.51	38257403.60	38257403.69	0.2645	0.1435	
Mercury	100046-02-12 19:26 G		38262154.20	38262154.31	38262154.42	0.2643	0.0059	
Mercury	100059-02-15 12:28 G		38266904.93	38266905.02	38266905.11	0.2642	0.1516	
Mercury	100062-08-15 17:31 G		38268182.11	38268182.23	38268182.35	0.2688	0.1778	
Venus	100065-04-11 12:14 G		38269151.85	38269152.01	38269152.17	0.2627	0.0605	
Mercury	100066-02-08 13:55 G		38269455.07	38269455.08	38269455.10	0.2646	0.2602	
Mercury	100075-08-19 02:52 G		38272933.51	38272933.62	38272933.73	0.2690	0.2002	

Mercury	100079-02-11 06:57 G	38274205.70	38274205.79	38274205.89	0.2644	0.1140
Mercury	100092-02-13 23:59 G	38278956.40	38278956.50	38278956.61	0.2643	0.0352
Mercury	100105-02-16 17:02 G	38283707.14	38283707.21	38283707.29	0.2642	0.1820
Mercury	100108-08-17 00:14 G	38284984.37	38284984.51	38284984.66	0.2688	0.1073
Mercury	100112-02-10 18:43 G	38286257.23	38286257.28	38286257.33	0.2645	0.2301
Mercury	100125-02-12 11:45 G	38291007.89	38291007.99	38291008.09	0.2644	0.0831
Mercury	100138-02-15 04:47 G	38295758.60	38295758.70	38295758.81	0.2643	0.0639
Mercury	100151-02-17 21:50 G	38300509.35	38300509.41	38300509.48	0.2642	0.2119
Mercury	100154-08-18 07:26 G	38301786.65	38301786.81	38301786.97	0.2689	0.0345
Mercury	100158-02-10 23:31 G	38303059.41	38303059.48	38303059.55	0.2645	0.2001
Mercury	100171-02-13 16:33 G	38307810.08	38307810.19	38307810.29	0.2644	0.0532
Venus	100178-10-11 12:43 G	38310606.88	38310607.03	38310607.18	0.2705	0.0741
Mercury	100184-02-16 09:35 G	38312560.80	38312560.90	38312561.00	0.2643	0.0949
Mercury	100197-02-18 02:38 G	38317311.57	38317311.61	38317311.65	0.2642	0.2424
Mercury	100200-08-19 14:23 G	38318588.94	38318589.10	38318589.26	0.2689	0.0367
Mercury	100204-02-13 04:19 G	38319861.59	38319861.68	38319861.76	0.2645	0.1708
Mercury	100217-02-14 21:07 G	38324612.28	38324612.38	38324612.49	0.2644	0.0252
Mercury	100230-02-17 14:09 G	38329363.00	38329363.09	38329363.19	0.2643	0.1253
Mercury	100246-08-20 21:21 G	38335391.24	38335391.39	38335391.54	0.2689	0.1078
Mercury	100250-02-13 08:52 G	38336663.78	38336663.87	38336663.96	0.2645	0.1406
Mercury	100263-02-16 01:55 G	38341414.47	38341414.58	38341414.69	0.2644	0.0070
Mercury	100276-02-18 18:57 G	38346165.21	38346165.29	38346165.38	0.2642	0.1551
Mercury	100279-08-18 18:43 G	38347442.17	38347442.28	38347442.39	0.2688	0.2009
Mercury	100283-02-11 20:38 G	38348715.34	38348715.36	38348715.38	0.2646	0.2576
Mercury	100292-08-21 04:19 G	38352193.56	38352193.68	38352193.80	0.2689	0.1790
Mercury	100296-02-14 13:40 G	38353465.97	38353466.07	38353466.17	0.2645	0.1106
Venus	100308-04-14 12:28 G	38357907.86	38357908.02	38357908.17	0.2628	0.0654
Mercury	100309-02-17 06:43 G	38358216.67	38358216.78	38358216.88	0.2643	0.0377
Mercury	100322-02-19 23:45 G	38362967.41	38362967.49	38362967.57	0.2642	0.1850
Mercury	100325-08-20 01:40 G	38364244.43	38364244.57	38364244.72	0.2688	0.1291

Mercury	100329-02-13 01:26 G	38365517.50	38365517.56	38365517.61	0.2646	0.2281
Mercury	100338-08-23 11:16 G	38368995.91	38368995.97	38368996.03	0.2690	0.2504
Mercury	100342-02-15 18:14 G	38370268.16	38370268.26	38370268.37	0.2644	0.0810
Mercury	100355-02-18 11:16 G	38375018.87	38375018.97	38375019.08	0.2643	0.0680
Mercury	100368-02-21 04:33 G	38379769.63	38379769.69	38379769.75	0.2642	0.2157
Mercury	100371-08-21 08:38 G	38381046.70	38381046.86	38381047.02	0.2688	0.0585
Mercury	100375-02-14 05:59 G	38382319.68	38382319.75	38382319.82	0.2646	0.1981
Mercury	100388-02-16 23:02 G	38387070.35	38387070.46	38387070.57	0.2644	0.0505
Mercury	100401-02-18 16:04 G	38391821.07	38391821.17	38391821.27	0.2643	0.0975
Mercury	100414-02-21 09:07 G	38396571.85	38396571.88	38396571.92	0.2642	0.2460
Mercury	100417-08-21 15:35 G	38397848.99	38397849.15	38397849.32	0.2688	0.0157
Mercury	100421-02-14 10:47 G	38399121.87	38399121.95	38399122.03	0.2645	0.1679
Venus	100421-10-13 15:07 G	38399362.98	38399363.13	38399363.28	0.2705	0.0678
Mercury	100434-02-17 03:50 G	38403872.55	38403872.66	38403872.76	0.2644	0.0215
Mercury	100447-02-19 20:52 G	38408623.27	38408623.37	38408623.46	0.2643	0.1277
Mercury	100463-08-22 22:47 G	38414651.29	38414651.45	38414651.60	0.2689	0.0859
Mercury	100467-02-15 15:21 G	38415924.05	38415924.14	38415924.24	0.2645	0.1379
Mercury	100480-02-18 08:23 G	38420674.75	38420674.85	38420674.96	0.2644	0.0149
Mercury	100493-02-20 01:40 G	38425425.48	38425425.57	38425425.65	0.2643	0.1582
Mercury	100496-08-19 20:09 G	38426702.25	38426702.34	38426702.43	0.2687	0.2233
Mercury	100500-02-14 03:07 G	38427975.61	38427975.63	38427975.66	0.2646	0.2552
Mercury	100509-08-24 05:45 G	38431453.61	38431453.74	38431453.87	0.2689	0.1583
Mercury	100513-02-16 20:09 G	38432726.24	38432726.34	38432726.44	0.2645	0.1075
Mercury	100526-02-19 13:11 G	38437476.95	38437477.05	38437477.16	0.2644	0.0409
Mercury	100539-02-22 06:14 G	38442227.69	38442227.76	38442227.84	0.2643	0.1890
Mercury	100542-08-22 03:07 G	38443504.50	38443504.63	38443504.76	0.2687	0.1522
Mercury	100546-02-15 07:55 G	38444777.77	38444777.83	38444777.88	0.2646	0.2254
Venus	100551-04-16 12:28 G	38446663.86	38446664.02	38446664.18	0.2627	0.0705
Mercury	100555-08-25 12:43 G	38448255.95	38448256.03	38448256.11	0.2689	0.2293
Mercury	100559-02-18 00:57 G	38449528.43	38449528.54	38449528.64	0.2645	0.0778

Mercury	100572-02-20 17:59 G	38454279.15	38454279.25	38454279.35	0.2643	0.0707
Mercury	100585-02-22 11:02 G	38459029.90	38459029.96	38459030.02	0.2642	0.2189
Mercury	100588-08-22 10:04 G	38460306.77	38460306.92	38460307.08	0.2688	0.0793
Mercury	100592-02-16 12:28 G	38461579.95	38461580.02	38461580.09	0.2646	0.1955
Mercury	100605-02-19 05:31 G	38466330.63	38466330.73	38466330.84	0.2645	0.0488
Mercury	100618-02-21 22:47 G	38471081.35	38471081.45	38471081.55	0.2643	0.1012
Mercury	100631-02-24 15:50 G	38475832.12	38475832.16	38475832.19	0.2642	0.2495
Mercury	100634-08-24 17:02 G	38477109.05	38477109.21	38477109.38	0.2688	0.0097
Mercury	100638-02-17 17:16 G	38478382.14	38478382.22	38478382.30	0.2646	0.1651
Mercury	100651-02-20 10:19 G	38483132.82	38483132.93	38483133.04	0.2644	0.0177
Mercury	100664-02-23 03:21 G	38487883.55	38487883.64	38487883.74	0.2643	0.1310
Venus	100664-10-15 17:30 G	38488119.08	38488119.23	38488119.38	0.2705	0.0608
Mercury	100680-08-25 00:14 G	38493911.35	38493911.51	38493911.66	0.2688	0.0647
Mercury	100684-02-18 22:04 G	38495184.33	38495184.42	38495184.51	0.2645	0.1350
Mercury	100697-02-20 15:06 G	38499935.02	38499935.13	38499935.24	0.2644	0.0132
Mercury	100710-02-24 08:09 G	38504685.75	38504685.84	38504685.92	0.2643	0.1616
Mercury	100713-08-23 21:21 G	38505962.33	38505962.39	38505962.45	0.2687	0.2473
Mercury	100717-02-17 09:35 G	38507235.88	38507235.90	38507235.93	0.2647	0.2527
Mercury	100726-08-27 06:57 G	38510713.65	38510713.79	38510713.93	0.2689	0.1352
Mercury	100730-02-20 02:52 G	38511986.52	38511986.62	38511986.71	0.2645	0.1054
Mercury	100743-02-22 19:54 G	38516737.22	38516737.33	38516737.43	0.2644	0.0447
Mercury	100756-02-25 12:42 G	38521487.96	38521488.03	38521488.11	0.2643	0.1920
Mercury	100759-08-25 04:33 G	38522764.57	38522764.69	38522764.81	0.2687	0.1735
Mercury	100763-02-18 14:23 G	38524038.05	38524038.10	38524038.16	0.2646	0.2225
Mercury	100772-08-27 14:09 G	38527515.98	38527516.09	38527516.19	0.2689	0.2080
Mercury	100776-02-21 07:26 G	38528788.71	38528788.81	38528788.92	0.2645	0.0746
Mercury	100789-02-23 00:28 G	38533539.42	38533539.52	38533539.62	0.2644	0.0737
Venus	100794-04-18 12:28 G	38535419.86	38535420.02	38535420.18	0.2628	0.0736
Mercury	100802-02-25 17:30 G	38538290.18	38538290.23	38538290.29	0.2643	0.2223
Mercury	100805-08-25 11:30 G	38539566.83	38539566.98	38539567.13	0.2687	0.1020

Mercury	100809-02-18 19:11 G	38540840.23	38540840.30	38540840.37	0.2646	0.1921
Mercury	100822-02-21 12:14 G	38545590.90	38545591.01	38545591.12	0.2645	0.0441
Mercury	100835-02-24 05:16 G	38550341.62	38550341.72	38550341.82	0.2644	0.1043
Mercury	100848-02-26 22:18 G	38555092.40	38555092.43	38555092.46	0.2643	0.2527
Mercury	100851-08-26 18:28 G	38556369.11	38556369.27	38556369.43	0.2688	0.0294
Mercury	100855-02-19 23:59 G	38557642.41	38557642.50	38557642.58	0.2646	0.1623
Mercury	100868-02-22 17:02 G	38562393.10	38562393.21	38562393.31	0.2645	0.0170
Mercury	100881-02-24 09:50 G	38567143.82	38567143.91	38567144.01	0.2643	0.1351
Mercury	100897-08-27 01:26 G	38573171.40	38573171.56	38573171.72	0.2688	0.0420
Mercury	100901-02-21 04:33 G	38574444.60	38574444.69	38574444.79	0.2646	0.1322
Venus	100907-10-18 19:54 G	38576875.18	38576875.33	38576875.48	0.2705	0.0547
Mercury	100914-02-23 21:35 G	38579195.29	38579195.40	38579195.51	0.2644	0.0165
Mercury	100927-02-26 14:38 G	38583946.03	38583946.11	38583946.20	0.2643	0.1651
Mercury	100930-08-25 22:47 G	38585222.45	38585222.45	38585222.46	0.2687	0.2685
Mercury	100934-02-19 16:18 G	38586496.15	38586496.18	38586496.21	0.2647	0.2501
Mercury	100943-08-29 08:23 G	38589973.71	38589973.85	38589974.00	0.2688	0.1155
Mercury	100947-02-22 09:21 G	38591246.79	38591246.89	38591246.99	0.2645	0.1020
Mercury	100960-02-25 02:23 G	38595997.49	38595997.60	38595997.70	0.2644	0.0470
Mercury	100973-02-26 19:26 G	38600748.24	38600748.31	38600748.38	0.2643	0.1953
Mercury	100976-08-26 05:45 G	38602024.63	38602024.74	38602024.85	0.2687	0.1973
Mercury	100980-02-20 21:06 G	38603298.32	38603298.38	38603298.44	0.2647	0.2197
Mercury	100989-08-29 15:21 G	38606776.03	38606776.14	38606776.26	0.2689	0.1871
Mercury	100993-02-22 13:54 G	38608048.98	38608049.08	38608049.19	0.2645	0.0725

102ND MILLENNIUM CE

This is a list of transits visible from Earth in the 102nd millennium CE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
	TRANSIT							
	TIME							
Mercury	101006-02-26 06:57	G	38612799.69	38612799.79	38612799.90	0.2644	0.0774	
Mercury	101019-03-01 00:14	G	38617550.45	38617550.51	38617550.56	0.2643	0.2259	
Mercury	101022-08-28 12:42	G	38618826.89	38618827.03	38618827.18	0.2687	0.1249	
Mercury	101026-02-22 01:40	G	38620100.50	38620100.57	38620100.65	0.2646	0.1896	
Mercury	101035-08-31 22:33	G	38623578.40	38623578.44	38623578.48	0.2689	0.2590	
Venus	101037-04-20 12:28	G	38624175.86	38624176.02	38624176.17	0.2628	0.0777	
Mercury	101039-02-24 18:42	G	38624851.17	38624851.28	38624851.39	0.2645	0.0413	
Mercury	101052-02-27 11:45	G	38629601.89	38629601.99	38629602.09	0.2644	0.1075	
Mercury	101065-03-01 04:47	G	38634352.68	38634352.70	38634352.73	0.2643	0.2566	
Mercury	101068-08-28 19:40	G	38635629.16	38635629.32	38635629.48	0.2687	0.0531	
Mercury	101072-02-23 06:28	G	38636902.68	38636902.77	38636902.85	0.2646	0.1592	
Mercury	101085-02-24 23:30	G	38641653.37	38641653.48	38641653.59	0.2645	0.0121	
Mercury	101098-02-27 16:33	G	38646404.10	38646404.19	38646404.28	0.2644	0.1382	
Mercury	101114-08-31 02:52	G	38652431.46	38652431.62	38652431.78	0.2688	0.0217	
Mercury	101118-02-24 11:16	G	38653704.87	38653704.97	38653705.06	0.2646	0.1295	
Mercury	101131-02-27 04:18	G	38658455.57	38658455.68	38658455.78	0.2645	0.0227	
Mercury	101144-02-29 21:21	G	38663206.30	38663206.39	38663206.47	0.2644	0.1688	
Venus	101150-10-20 22:18	G	38665631.28	38665631.43	38665631.59	0.2704	0.0470	
Mercury	101151-02-22 22:47	G	38665756.42	38665756.45	38665756.49	0.2647	0.2472	
Mercury	101160-08-31 09:50	G	38669233.76	38669233.91	38669234.06	0.2688	0.0933	
Mercury	101164-02-25 15:50	G	38670507.06	38670507.16	38670507.26	0.2646	0.0986	
Mercury	101177-02-27 08:52	G	38675257.77	38675257.87	38675257.98	0.2644	0.0507	
Mercury	101190-03-02 01:54	G	38680008.51	38680008.58	38680008.65	0.2643	0.1994	
Mercury	101193-08-29 07:11	G	38681284.71	38681284.80	38681284.89	0.2686	0.2193	
Mercury	101197-02-23 03:35	G	38682558.59	38682558.65	38682558.71	0.2647	0.2169	
Mercury	101206-09-01 16:47	G	38686036.08	38686036.20	38686036.33	0.2688	0.1665	

Mercury	101210-02-25 20:38 G	38687309.25	38687309.36	38687309.46	0.2646	0.0684
Mercury	101223-02-28 13:40 G	38692059.97	38692060.07	38692060.17	0.2644	0.0808
Mercury	101236-03-02 06:42 G	38696810.73	38696810.78	38696810.83	0.2643	0.2298
Mercury	101239-08-30 14:09 G	38698086.96	38698087.09	38698087.23	0.2687	0.1466
Mercury	101243-02-24 08:09 G	38699360.77	38699360.84	38699360.92	0.2647	0.1872
Mercury	101252-09-01 23:45 G	38702838.42	38702838.49	38702838.57	0.2688	0.2381
Mercury	101256-02-27 01:26 G	38704111.45	38704111.56	38704111.66	0.2645	0.0395
Mercury	101269-02-28 18:28 G	38708862.17	38708862.27	38708862.36	0.2644	0.1115
Venus	101280-04-21 12:14 G	38712931.86	38712932.01	38712932.17	0.2628	0.0802
Mercury	101282-03-03 11:30 G	38713612.96	38713612.98	38713612.99	0.2643	0.2604
Mercury	101285-08-30 21:21 G	38714889.23	38714889.39	38714889.54	0.2687	0.0735
Mercury	101289-02-24 12:57 G	38716162.96	38716163.04	38716163.13	0.2646	0.1567
Mercury	101302-02-28 05:59 G	38720913.65	38720913.75	38720913.86	0.2645	0.0106
Mercury	101315-03-02 23:02 G	38725664.37	38725664.46	38725664.55	0.2644	0.1416
Mercury	101331-09-02 04:04 G	38731691.51	38731691.67	38731691.84	0.2687	0.0060
Mercury	101335-02-26 17:45 G	38732965.15	38732965.24	38732965.33	0.2646	0.1255
Mercury	101348-02-29 10:47 G	38737715.84	38737715.95	38737716.06	0.2645	0.0231
Mercury	101361-03-03 03:50 G	38742466.58	38742466.66	38742466.74	0.2644	0.1719
Mercury	101368-02-25 05:30 G	38745016.69	38745016.73	38745016.77	0.2647	0.2441
Mercury	101377-09-02 11:16 G	38748493.81	38748493.97	38748494.12	0.2688	0.0720
Mercury	101381-02-26 22:33 G	38749767.34	38749767.44	38749767.54	0.2646	0.0953
Venus	101393-10-22 00:57 G	38754387.39	38754387.54	38754387.70	0.2704	0.0393
Mercury	101394-03-01 15:35 G	38754518.04	38754518.15	38754518.25	0.2645	0.0544
Mercury	101407-03-05 08:38 G	38759268.79	38759268.86	38759268.92	0.2644	0.2031
Mercury	101410-09-01 08:38 G	38760544.79	38760544.86	38760544.93	0.2686	0.2408
Mercury	101414-02-26 10:04 G	38761818.86	38761818.92	38761818.99	0.2647	0.2140
Mercury	101423-09-04 18:14 G	38765296.12	38765296.26	38765296.39	0.2688	0.1445
Mercury	101427-03-01 03:06 G	38766569.53	38766569.63	38766569.74	0.2646	0.0654
Mercury	101440-03-02 20:09 G	38771320.24	38771320.34	38771320.45	0.2645	0.0847
Mercury	101453-03-05 13:11 G	38776071.00	38776071.05	38776071.10	0.2643	0.2337

Mercury	101456-09-01 15:35 G	38777347.02	38777347.15	38777347.28	0.2686	0.1674
Mercury	101460-02-27 14:52 G	38778621.04	38778621.12	38778621.20	0.2647	0.1833
Mercury	101469-09-05 01:11 G	38782098.46	38782098.55	38782098.65	0.2688	0.2185
Mercury	101473-03-01 07:54 G	38783371.72	38783371.83	38783371.94	0.2646	0.0346
Mercury	101486-03-04 00:57 G	38788122.44	38788122.54	38788122.64	0.2644	0.1149
Mercury	101499-03-06 17:59 G	38792873.25	38792873.25	38792873.25	0.2643	0.2642
Mercury	101502-09-03 22:33 G	38794149.29	38794149.44	38794149.59	0.2687	0.0955
Mercury	101506-02-28 19:40 G	38795423.23	38795423.32	38795423.41	0.2647	0.1528
Mercury	101519-03-03 12:42 G	38800173.92	38800174.03	38800174.14	0.2645	0.0076
Venus	101523-04-25 12:14 G	38801687.86	38801688.01	38801688.17	0.2628	0.0837
Mercury	101532-03-05 05:45 G	38804924.65	38804924.74	38804924.83	0.2644	0.1456
Mercury	101548-09-04 05:30 G	38810951.57	38810951.73	38810951.90	0.2687	0.0225
Mercury	101552-03-01 00:14 G	38812225.42	38812225.51	38812225.61	0.2646	0.1230
Mercury	101565-03-03 17:16 G	38816976.12	38816976.22	38816976.33	0.2645	0.0276
Mercury	101578-03-06 10:18 G	38821726.85	38821726.93	38821727.01	0.2644	0.1763
Mercury	101585-02-27 11:59 G	38824276.96	38824277.00	38824277.04	0.2648	0.2412
Mercury	101594-09-05 12:28 G	38827753.86	38827754.02	38827754.18	0.2687	0.0507
Mercury	101598-03-02 05:02 G	38829027.61	38829027.71	38829027.81	0.2646	0.0921
Mercury	101611-03-04 22:04 G	38833778.31	38833778.42	38833778.52	0.2645	0.0573
Mercury	101624-03-06 15:06 G	38838529.06	38838529.13	38838529.20	0.2644	0.2067
Mercury	101627-09-03 09:50 G	38839804.88	38839804.91	38839804.94	0.2686	0.2633
Mercury	101631-02-28 16:47 G	38841079.14	38841079.20	38841079.26	0.2647	0.2102
Venus	101636-10-24 03:35 G	38843143.50	38843143.65	38843143.81	0.2704	0.0316
Mercury	101640-09-05 19:40 G	38844556.17	38844556.32	38844556.46	0.2687	0.1241
Mercury	101644-03-02 09:50 G	38845829.80	38845829.91	38845830.01	0.2646	0.0619
Mercury	101657-03-05 02:52 G	38850580.51	38850580.62	38850580.72	0.2645	0.0883
Mercury	101670-03-07 19:54 G	38855331.28	38855331.33	38855331.37	0.2644	0.2373
Mercury	101673-09-03 16:47 G	38856607.09	38856607.20	38856607.31	0.2686	0.1905
Mercury	101677-02-28 21:35 G	38857881.32	38857881.40	38857881.47	0.2647	0.1800
Mercury	101686-09-07 02:38 G	38861358.50	38861358.61	38861358.72	0.2688	0.1967

Mercury	101690-03-03 14:23 G	38862632.00	38862632.10	38862632.21	0.2646	0.0315
Mercury	101703-03-07 07:26 G	38867382.72	38867382.81	38867382.91	0.2645	0.1187
Mercury	101719-09-05 23:59 G	38873409.35	38873409.50	38873409.64	0.2686	0.1165
Mercury	101723-03-03 02:09 G	38874683.50	38874683.59	38874683.68	0.2647	0.1494
Mercury	101736-03-04 19:11 G	38879434.19	38879434.30	38879434.41	0.2646	0.0010
Mercury	101749-03-07 12:14 G	38884184.92	38884185.01	38884185.10	0.2645	0.1496
Mercury	101765-09-06 06:57 G	38890211.63	38890211.79	38890211.95	0.2686	0.0434
Venus	101766-04-26 11:59 G	38890443.84	38890444.00	38890444.15	0.2628	0.0846
Mercury	101769-03-03 06:57 G	38891485.69	38891485.79	38891485.88	0.2647	0.1192
Mercury	101782-03-05 23:59 G	38896236.39	38896236.50	38896236.60	0.2645	0.0314
Mercury	101795-03-08 17:02 G	38900987.13	38900987.21	38900987.29	0.2644	0.1801
Mercury	101802-03-02 18:42 G	38903537.23	38903537.28	38903537.32	0.2648	0.2378
Mercury	101811-09-08 13:54 G	38907013.92	38907014.08	38907014.25	0.2687	0.0310
Mercury	101815-03-05 11:30 G	38908287.88	38908287.98	38908288.09	0.2646	0.0890
Mercury	101828-03-07 04:33 G	38913038.59	38913038.69	38913038.80	0.2645	0.0618
Mercury	101841-03-09 21:35 G	38917789.34	38917789.40	38917789.47	0.2644	0.2110
Mercury	101848-03-02 23:16 G	38920339.41	38920339.47	38920339.54	0.2648	0.2074
Mercury	101857-09-08 20:52 G	38923816.22	38923816.37	38923816.52	0.2687	0.1033
Mercury	101861-03-05 16:18 G	38925090.08	38925090.18	38925090.29	0.2646	0.0577
Mercury	101874-03-08 09:21 G	38929840.79	38929840.89	38929840.99	0.2645	0.0918
Venus	101879-10-27 06:14 G	38931899.61	38931899.76	38931899.92	0.2704	0.0238
Mercury	101887-03-11 02:23 G	38934591.56	38934591.60	38934591.64	0.2644	0.2412
Mercury	101890-09-06 18:14 G	38935867.16	38935867.26	38935867.36	0.2685	0.2115
Mercury	101894-03-04 04:04 G	38937141.59	38937141.67	38937141.75	0.2647	0.1768
Mercury	101903-09-11 04:04 G	38940618.55	38940618.67	38940618.79	0.2687	0.1767
Mercury	101907-03-07 21:06 G	38941892.27	38941892.38	38941892.49	0.2646	0.0278
Mercury	101920-03-09 14:09 G	38946642.99	38946643.09	38946643.18	0.2645	0.1226
Mercury	101936-09-08 01:11 G	38952669.41	38952669.55	38952669.69	0.2686	0.1392
Mercury	101940-03-05 08:38 G	38953943.78	38953943.86	38953943.95	0.2647	0.1467
Mercury	101949-09-11 10:47 G	38957420.90	38957420.95	38957421.01	0.2687	0.2490

Mercury	101953-03-08 01:40 G	38958694.47	38958694.57	38958694.68	0.2646	0.0116
Mercury	101966-03-10 18:42 G	38963445.20	38963445.28	38963445.37	0.2645	0.1534
Mercury	101982-09-09 08:23 G	38969471.69	38969471.85	38969472.00	0.2686	0.0653
Mercury	101986-03-06 13:26 G	38970745.97	38970746.06	38970746.16	0.2647	0.1155
Mercury	101999-03-09 06:28 G	38975496.67	38975496.77	38975496.88	0.2646	0.0346

103RD MILLENNIUM CE

This is a list of transits visible from Earth in the 103rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	102009-04-28 11:45 G	38979199.84	38979199.99	38979200.15	0.2628	0.0882		
Mercury	102012-03-10 23:30 G	38980247.40	38980247.48	38980247.56	0.2645	0.1838		
Mercury	102019-03-05 01:11 G	38982797.50	38982797.55	38982797.60	0.2648	0.2344		
Mercury	102028-09-09 15:21 G	38986273.97	38986274.14	38986274.30	0.2686	0.0110		
Mercury	102032-03-06 18:14 G	38987548.16	38987548.26	38987548.36	0.2647	0.0847		
Mercury	102045-03-09 11:16 G	38992298.86	38992298.97	38992299.07	0.2646	0.0653		
Mercury	102058-03-12 04:18 G	38997049.62	38997049.68	38997049.74	0.2644	0.2148		
Mercury	102065-03-05 05:59 G	38999599.68	38999599.75	38999599.81	0.2648	0.2042		
Mercury	102074-09-10 22:18 G	39003076.28	39003076.43	39003076.59	0.2687	0.0825		
Mercury	102078-03-07 23:02 G	39004350.35	39004350.46	39004350.56	0.2647	0.0545		
Mercury	102091-03-10 16:04 G	39009101.07	39009101.17	39009101.27	0.2645	0.0963		
Mercury	102104-03-13 08:52 G	39013851.84	39013851.87	39013851.91	0.2644	0.2459		
Mercury	102107-09-09 19:26 G	39015127.24	39015127.31	39015127.39	0.2685	0.2338		
Mercury	102111-03-07 10:33 G	39016401.86	39016401.94	39016402.02	0.2648	0.1736		

Mercury	102120-09-12 05:16 G	39019878.59	39019878.72	39019878.85	0.2687	0.1550
Venus	102122-10-29 09:06 G	39020655.73	39020655.88	39020656.04	0.2704	0.0140
Mercury	102124-03-09 03:35 G	39021152.55	39021152.65	39021152.76	0.2646	0.0244
Mercury	102137-03-11 20:38 G	39025903.27	39025903.36	39025903.46	0.2645	0.1265
Mercury	102153-09-10 02:38 G	39031929.48	39031929.61	39031929.74	0.2685	0.1592
Mercury	102157-03-07 15:21 G	39033204.05	39033204.14	39033204.23	0.2647	0.1427
Mercury	102166-09-13 12:14 G	39036680.93	39036681.01	39036681.10	0.2687	0.2290
Mercury	102170-03-10 08:23 G	39037954.74	39037954.85	39037954.96	0.2646	0.0076
Mercury	102183-03-13 01:26 G	39042705.47	39042705.56	39042705.64	0.2645	0.1571
Mercury	102190-03-06 03:06 G	39045255.62	39045255.63	39045255.64	0.2649	0.2621
Mercury	102199-09-11 09:35 G	39048731.74	39048731.90	39048732.05	0.2686	0.0870
Mercury	102203-03-09 20:09 G	39050006.24	39050006.34	39050006.43	0.2647	0.1122
Mercury	102216-03-11 12:57 G	39054756.94	39054757.04	39054757.15	0.2646	0.0397
Mercury	102229-03-14 05:59 G	39059507.68	39059507.75	39059507.83	0.2645	0.1879
Mercury	102236-03-07 07:40 G	39062057.77	39062057.82	39062057.87	0.2648	0.2314
Mercury	102245-09-12 16:33 G	39065534.03	39065534.19	39065534.35	0.2686	0.0132
Mercury	102249-03-10 00:42 G	39066808.43	39066808.53	39066808.64	0.2647	0.0817
Venus	102252-04-30 11:16 G	39067955.81	39067955.97	39067956.12	0.2629	0.0851
Mercury	102262-03-12 17:45 G	39071559.14	39071559.24	39071559.35	0.2646	0.0686
Mercury	102275-03-15 10:47 G	39076309.89	39076309.95	39076310.01	0.2645	0.2187
Mercury	102282-03-08 12:28 G	39078859.95	39078860.02	39078860.09	0.2648	0.2005
Mercury	102291-09-13 23:30 G	39082336.32	39082336.48	39082336.64	0.2686	0.0595
Mercury	102295-03-11 05:30 G	39083610.62	39083610.73	39083610.84	0.2647	0.0505
Mercury	102308-03-13 22:33 G	39088361.34	39088361.44	39088361.54	0.2646	0.0997
Mercury	102321-03-16 15:35 G	39093112.12	39093112.15	39093112.18	0.2644	0.2495
Mercury	102324-09-11 20:52 G	39094387.32	39094387.37	39094387.42	0.2685	0.2545
Mercury	102328-03-09 17:16 G	39095662.14	39095662.22	39095662.30	0.2648	0.1697
Mercury	102337-09-15 06:42 G	39099138.64	39099138.78	39099138.92	0.2687	0.1349
Mercury	102341-03-12 10:18 G	39100412.82	39100412.93	39100413.03	0.2647	0.0222
Mercury	102354-03-15 03:06 G	39105163.54	39105163.63	39105163.73	0.2645	0.1308

Venus	102365-10-31 11:45 G	39109411.84	39109411.99	39109412.15	0.2704	0.0071
Mercury	102370-09-13 03:49 G	39111189.54	39111189.66	39111189.78	0.2685	0.1814
Mercury	102374-03-10 21:49 G	39112464.32	39112464.41	39112464.51	0.2648	0.1394
Mercury	102383-09-16 13:40 G	39115940.97	39115941.07	39115941.17	0.2687	0.2086
Mercury	102387-03-13 14:52 G	39117215.01	39117215.12	39117215.23	0.2646	0.0122
Mercury	102400-03-15 07:54 G	39121965.75	39121965.83	39121965.92	0.2645	0.1614
Mercury	102407-03-09 09:35 G	39124515.88	39124515.90	39124515.92	0.2649	0.2586
Mercury	102416-09-13 10:47 G	39127991.80	39127991.95	39127992.10	0.2685	0.1079
Mercury	102420-03-11 02:37 G	39129266.51	39129266.61	39129266.71	0.2647	0.1084
Mercury	102433-03-13 19:40 G	39134017.21	39134017.32	39134017.43	0.2646	0.0420
Mercury	102446-03-16 12:42 G	39138767.96	39138768.03	39138768.10	0.2645	0.1922
Mercury	102453-03-09 14:23 G	39141318.05	39141318.10	39141318.15	0.2649	0.2281
Mercury	102462-09-14 17:59 G	39144794.08	39144794.25	39144794.41	0.2685	0.0352
Mercury	102466-03-12 07:25 G	39146068.70	39146068.81	39146068.91	0.2647	0.0785
Mercury	102479-03-15 00:13 G	39150819.41	39150819.51	39150819.62	0.2646	0.0734
Mercury	102492-03-16 17:30 G	39155570.17	39155570.23	39155570.28	0.2645	0.2232
Venus	102495-05-02 11:01 G	39156711.81	39156711.96	39156712.11	0.2629	0.0879
Mercury	102499-03-10 18:57 G	39158120.22	39158120.29	39158120.37	0.2648	0.1974
Mercury	102508-09-16 00:57 G	39161596.38	39161596.54	39161596.70	0.2686	0.0409
Mercury	102512-03-13 11:59 G	39162870.90	39162871.00	39162871.11	0.2647	0.0473
Mercury	102525-03-16 05:01 G	39167621.61	39167621.71	39167621.81	0.2646	0.1036
Mercury	102538-03-18 22:04 G	39172372.39	39172372.42	39172372.45	0.2645	0.2536
Mercury	102545-03-11 23:45 G	39174922.41	39174922.49	39174922.57	0.2648	0.1663
Mercury	102554-09-17 07:54 G	39178398.68	39178398.83	39178398.98	0.2686	0.1132
Mercury	102558-03-14 16:47 G	39179673.09	39179673.20	39179673.31	0.2647	0.0161
Mercury	102571-03-17 09:49 G	39184423.82	39184423.91	39184424.00	0.2646	0.1343
Mercury	102587-09-15 05:01 G	39190449.61	39190449.71	39190449.82	0.2685	0.2038
Mercury	102591-03-13 04:33 G	39191724.59	39191724.69	39191724.78	0.2648	0.1356
Mercury	102600-09-18 14:52 G	39195201.01	39195201.12	39195201.24	0.2686	0.1875
Mercury	102604-03-15 21:35 G	39196475.29	39196475.40	39196475.50	0.2647	0.0168

Venus	102608-11-02 14:37 G	39198167.96	39198168.11	39198168.27	0.2703	0.0064
Mercury	102617-03-18 14:37 G	39201226.02	39201226.11	39201226.19	0.2646	0.1656
Mercury	102624-03-11 16:18 G	39203776.15	39203776.18	39203776.20	0.2649	0.2556
Mercury	102633-09-16 12:13 G	39207251.87	39207252.01	39207252.15	0.2685	0.1291
Mercury	102637-03-14 09:06 G	39208526.78	39208526.88	39208526.98	0.2648	0.1049
Mercury	102646-09-19 21:49 G	39212003.38	39212003.41	39212003.45	0.2687	0.2604
Mercury	102650-03-17 02:09 G	39213277.49	39213277.59	39213277.70	0.2647	0.0466
Mercury	102663-03-19 19:11 G	39218028.23	39218028.30	39218028.37	0.2645	0.1964
Mercury	102670-03-12 20:52 G	39220578.32	39220578.37	39220578.43	0.2649	0.2242
Mercury	102679-09-17 19:11 G	39224054.14	39224054.30	39224054.46	0.2685	0.0544
Mercury	102683-03-15 13:54 G	39225328.98	39225329.08	39225329.18	0.2647	0.0739
Mercury	102696-03-17 06:57 G	39230079.69	39230079.79	39230079.89	0.2646	0.0768
Mercury	102709-03-20 23:59 G	39234830.44	39234830.50	39234830.55	0.2645	0.2272
Mercury	102716-03-14 01:40 G	39237380.50	39237380.57	39237380.64	0.2649	0.1937
Mercury	102725-09-19 02:09 G	39240856.43	39240856.59	39240856.76	0.2685	0.0189
Mercury	102729-03-16 18:42 G	39242131.17	39242131.28	39242131.38	0.2647	0.0431
Venus	102738-05-05 10:18 G	39245467.78	39245467.93	39245468.09	0.2629	0.0840
Mercury	102742-03-19 11:45 G	39246881.89	39246881.99	39246882.08	0.2646	0.1080
Mercury	102755-03-22 04:33 G	39251632.67	39251632.69	39251632.71	0.2645	0.2582
Mercury	102762-03-15 06:13 G	39254182.68	39254182.76	39254182.85	0.2648	0.1630
Mercury	102771-09-20 09:21 G	39257658.73	39257658.89	39257659.04	0.2686	0.0932
Mercury	102775-03-17 23:16 G	39258933.37	39258933.47	39258933.58	0.2647	0.0158
Mercury	102788-03-19 16:18 G	39263684.09	39263684.18	39263684.27	0.2646	0.1387
Mercury	102804-09-17 06:28 G	39269709.68	39269709.77	39269709.86	0.2684	0.2241
Mercury	102808-03-15 11:01 G	39270984.87	39270984.96	39270985.05	0.2648	0.1321
Mercury	102817-09-20 16:18 G	39274461.05	39274461.18	39274461.30	0.2686	0.1662
Mercury	102821-03-18 04:04 G	39275735.56	39275735.67	39275735.78	0.2647	0.0188
Mercury	102834-03-20 21:06 G	39280486.30	39280486.38	39280486.46	0.2646	0.1695
Mercury	102841-03-13 22:47 G	39283036.42	39283036.45	39283036.48	0.2649	0.2515
Mercury	102850-09-18 13:25 G	39286511.93	39286512.06	39286512.20	0.2684	0.1505

Venus	102851-11-04 17:16 G	39286924.07	39286924.22	39286924.38	0.2703	0.0092
Mercury	102854-03-16 15:49 G	39287787.06	39287787.16	39287787.26	0.2648	0.1010
Mercury	102863-09-21 23:16 G	39291263.40	39291263.47	39291263.54	0.2686	0.2412
Mercury	102867-03-19 08:52 G	39292537.76	39292537.87	39292537.97	0.2647	0.0501
Mercury	102880-03-21 01:40 G	39297288.51	39297288.57	39297288.64	0.2646	0.2005
Mercury	102887-03-15 03:35 G	39299838.59	39299838.65	39299838.70	0.2649	0.2209
Mercury	102896-09-18 20:23 G	39303314.19	39303314.35	39303314.51	0.2685	0.0775
Mercury	102900-03-17 20:37 G	39304589.25	39304589.36	39304589.46	0.2648	0.0704
Mercury	102913-03-20 13:25 G	39309339.96	39309340.06	39309340.17	0.2647	0.0812
Mercury	102926-03-23 06:28 G	39314090.72	39314090.77	39314090.82	0.2645	0.2313
Mercury	102933-03-16 08:09 G	39316640.77	39316640.84	39316640.92	0.2649	0.1898
Mercury	102942-09-21 03:35 G	39320116.48	39320116.65	39320116.81	0.2685	0.0070
Mercury	102946-03-19 01:11 G	39321391.44	39321391.55	39321391.66	0.2648	0.0390
Mercury	102959-03-21 18:13 G	39326142.16	39326142.26	39326142.36	0.2646	0.1121
Mercury	102972-03-23 11:16 G	39330892.96	39330892.97	39330892.98	0.2645	0.2627
Mercury	102979-03-17 12:57 G	39333442.95	39333443.04	39333443.13	0.2649	0.1591
Venus	102981-05-06 10:04 G	39334223.76	39334223.92	39334224.07	0.2629	0.0856
Mercury	102988-09-21 10:33 G	39336918.78	39336918.94	39336919.10	0.2685	0.0718
Mercury	102992-03-19 05:59 G	39338193.64	39338193.75	39338193.86	0.2647	0.0101

104TH MILLENNIUM CE

This is a list of transits visible from Earth in the 104th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Mercury	103005-03-22 23:01 G	39342944.37	39342944.46	39342944.55	0.2646	0.1434
Mercury	103021-09-20 07:40 G	39348969.76	39348969.82	39348969.89	0.2684	0.2453
Mercury	103025-03-18 17:45 G	39350245.14	39350245.24	39350245.33	0.2648	0.1283
Mercury	103034-09-23 17:30 G	39353721.10	39353721.23	39353721.37	0.2686	0.1475
Mercury	103038-03-21 10:33 G	39354995.84	39354995.94	39354996.05	0.2647	0.0242
Mercury	103051-03-24 03:35 G	39359746.57	39359746.65	39359746.73	0.2646	0.1742
Mercury	103058-03-17 05:16 G	39362296.69	39362296.72	39362296.76	0.2650	0.2484
Mercury	103067-09-21 14:52 G	39365771.99	39365772.12	39365772.24	0.2684	0.1713
Mercury	103071-03-19 22:18 G	39367047.33	39367047.43	39367047.53	0.2648	0.0971
Mercury	103080-09-24 00:42 G	39370523.44	39370523.53	39370523.62	0.2686	0.2208
Mercury	103084-03-21 15:21 G	39371798.03	39371798.14	39371798.25	0.2647	0.0543
Venus	103094-11-06 20:23 G	39375680.20	39375680.35	39375680.50	0.2703	0.0209
Mercury	103097-03-24 08:23 G	39376548.78	39376548.85	39376548.92	0.2646	0.2051
Mercury	103104-03-18 10:04 G	39379098.86	39379098.92	39379098.98	0.2650	0.2175
Mercury	103113-09-22 21:49 G	39382574.26	39382574.41	39382574.56	0.2685	0.0966
Mercury	103117-03-21 03:06 G	39383849.52	39383849.63	39383849.73	0.2648	0.0664
Mercury	103130-03-23 20:09 G	39388600.24	39388600.34	39388600.44	0.2647	0.0856
Mercury	103143-03-26 13:11 G	39393351.00	39393351.05	39393351.09	0.2646	0.2364
Mercury	103150-03-19 14:52 G	39395901.04	39395901.12	39395901.19	0.2649	0.1866
Mercury	103159-09-24 04:47 G	39399376.54	39399376.70	39399376.87	0.2685	0.0234
Mercury	103163-03-22 07:40 G	39400651.72	39400651.82	39400651.93	0.2648	0.0364
Mercury	103176-03-24 00:42 G	39405402.44	39405402.53	39405402.63	0.2647	0.1167
Mercury	103196-03-19 19:25 G	39412703.23	39412703.31	39412703.40	0.2649	0.1548
Mercury	103205-09-24 11:59 G	39416178.84	39416179.00	39416179.16	0.2685	0.0524
Mercury	103209-03-22 12:28 G	39417453.91	39417454.02	39417454.13	0.2648	0.0048
Mercury	103222-03-25 05:30 G	39422204.64	39422204.73	39422204.82	0.2646	0.1474
Venus	103224-05-08 09:21 G	39422979.74	39422979.89	39422980.05	0.2630	0.0833
Mercury	103238-09-22 09:06 G	39428229.86	39428229.88	39428229.90	0.2683	0.2655
Mercury	103242-03-21 00:13 G	39429505.41	39429505.51	39429505.60	0.2649	0.1235
Mercury	103251-09-25 18:57 G	39432981.14	39432981.29	39432981.43	0.2685	0.1258

Mercury	103255-03-23 17:16 G	39434256.11	39434256.22	39434256.33	0.2647	0.0280
Mercury	103268-03-25 10:18 G	39439006.85	39439006.93	39439007.01	0.2646	0.1788
Mercury	103275-03-19 11:59 G	39441556.96	39441557.00	39441557.04	0.2650	0.2445
Mercury	103284-09-22 16:04 G	39445032.06	39445032.17	39445032.29	0.2684	0.1915
Mercury	103288-03-21 05:01 G	39446307.60	39446307.71	39446307.81	0.2648	0.0932
Mercury	103297-09-26 01:54 G	39449783.48	39449783.58	39449783.69	0.2686	0.2012
Mercury	103301-03-24 22:04 G	39451058.31	39451058.42	39451058.52	0.2647	0.0594
Mercury	103314-03-27 14:52 G	39455809.06	39455809.12	39455809.19	0.2646	0.2102
Mercury	103321-03-20 16:33 G	39458359.13	39458359.19	39458359.25	0.2650	0.2135
Mercury	103330-09-24 23:16 G	39461834.32	39461834.47	39461834.61	0.2684	0.1172
Mercury	103334-03-23 09:35 G	39463109.80	39463109.90	39463110.01	0.2648	0.0621
Venus	103337-11-08 23:16 G	39464436.31	39464436.47	39464436.62	0.2703	0.0284
Mercury	103347-03-26 02:37 G	39467860.51	39467860.61	39467860.71	0.2647	0.0900
Mercury	103360-03-27 19:40 G	39472611.28	39472611.32	39472611.36	0.2646	0.2410
Mercury	103367-03-21 21:21 G	39475161.31	39475161.39	39475161.47	0.2649	0.1821
Mercury	103376-09-25 06:13 G	39478636.60	39478636.76	39478636.92	0.2684	0.0418
Mercury	103380-03-23 14:23 G	39479911.99	39479912.10	39479912.21	0.2648	0.0306
Mercury	103393-03-26 07:25 G	39484662.71	39484662.81	39484662.90	0.2647	0.1210
Mercury	103413-03-23 02:09 G	39491963.50	39491963.59	39491963.67	0.2649	0.1514
Mercury	103422-09-27 13:11 G	39495438.89	39495439.05	39495439.21	0.2685	0.0320
Mercury	103426-03-25 19:11 G	39496714.19	39496714.30	39496714.40	0.2648	0.0072
Mercury	103439-03-28 11:59 G	39501464.92	39501465.00	39501465.09	0.2647	0.1527
Mercury	103459-03-24 06:42 G	39508765.69	39508765.78	39508765.88	0.2649	0.1200
Venus	103467-05-11 08:37 G	39511735.71	39511735.86	39511736.02	0.2630	0.0808
Mercury	103468-09-27 20:09 G	39512241.19	39512241.34	39512241.49	0.2685	0.1068
Mercury	103472-03-25 23:45 G	39513516.39	39513516.49	39513516.60	0.2648	0.0333
Mercury	103485-03-28 16:47 G	39518267.12	39518267.20	39518267.28	0.2646	0.1830
Mercury	103492-03-21 18:28 G	39520817.23	39520817.27	39520817.31	0.2650	0.2403
Mercury	103501-09-26 17:30 G	39524292.13	39524292.23	39524292.32	0.2683	0.2126
Mercury	103505-03-25 11:30 G	39525567.88	39525567.98	39525568.08	0.2649	0.0883

Mercury	103514-09-30 03:06 G	39529043.51	39529043.63	39529043.75	0.2685	0.1797
Mercury	103518-03-28 04:33 G	39530318.58	39530318.69	39530318.79	0.2647	0.0630
Mercury	103531-03-30 21:35 G	39535069.33	39535069.40	39535069.46	0.2646	0.2143
Mercury	103538-03-23 23:16 G	39537619.40	39537619.47	39537619.53	0.2650	0.2089
Mercury	103547-09-28 00:28 G	39541094.38	39541094.52	39541094.66	0.2684	0.1373
Mercury	103551-03-26 16:18 G	39542370.07	39542370.18	39542370.28	0.2648	0.0572
Mercury	103560-09-30 10:18 G	39545845.88	39545845.93	39545845.97	0.2686	0.2550
Mercury	103564-03-28 09:06 G	39547120.78	39547120.88	39547120.99	0.2647	0.0949
Mercury	103577-03-31 02:09 G	39551871.56	39551871.59	39551871.63	0.2646	0.2456
Venus	103580-11-11 02:23 G	39553192.45	39553192.60	39553192.75	0.2702	0.0399
Mercury	103584-03-24 03:49 G	39554421.59	39554421.66	39554421.74	0.2650	0.1783
Mercury	103593-09-28 07:25 G	39557896.65	39557896.81	39557896.97	0.2684	0.0629
Mercury	103597-03-26 20:52 G	39559172.27	39559172.37	39559172.48	0.2648	0.0281
Mercury	103610-03-29 13:54 G	39563922.99	39563923.08	39563923.18	0.2647	0.1259
Mercury	103630-03-25 08:37 G	39571223.77	39571223.86	39571223.95	0.2650	0.1468
Mercury	103639-09-29 14:37 G	39574698.94	39574699.11	39574699.27	0.2684	0.0129
Mercury	103643-03-28 01:40 G	39575974.46	39575974.57	39575974.68	0.2648	0.0052
Mercury	103656-03-29 18:42 G	39580725.19	39580725.28	39580725.36	0.2647	0.1570
Mercury	103676-03-25 13:25 G	39588025.96	39588026.06	39588026.15	0.2649	0.1157
Mercury	103685-09-29 21:35 G	39591501.24	39591501.40	39591501.55	0.2684	0.0860
Mercury	103689-03-28 06:28 G	39592776.66	39592776.77	39592776.87	0.2648	0.0378
Mercury	103702-03-31 23:16 G	39597527.40	39597527.47	39597527.55	0.2647	0.1883
Mercury	103709-03-25 01:11 G	39600077.50	39600077.55	39600077.59	0.2651	0.2366
Venus	103710-05-13 08:09 G	39600491.68	39600491.84	39600492.00	0.2630	0.0778
Mercury	103718-09-28 18:42 G	39603552.20	39603552.28	39603552.37	0.2683	0.2316
Mercury	103722-03-27 17:59 G	39604828.15	39604828.25	39604828.36	0.2649	0.0848
Mercury	103731-10-02 04:33 G	39608303.56	39608303.69	39608303.82	0.2685	0.1616
Mercury	103735-03-30 11:01 G	39609578.86	39609578.96	39609579.07	0.2648	0.0677
Mercury	103748-04-01 04:04 G	39614329.61	39614329.67	39614329.73	0.2646	0.2191
Mercury	103755-03-26 05:45 G	39616879.68	39616879.74	39616879.81	0.2650	0.2051

Mercury	103764-09-29 01:40 G	39620354.44	39620354.57	39620354.71	0.2683	0.1584
Mercury	103768-03-27 22:47 G	39621630.35	39621630.45	39621630.56	0.2649	0.0530
Mercury	103777-10-02 11:30 G	39625105.91	39625105.98	39625106.06	0.2685	0.2356
Mercury	103781-03-30 15:49 G	39626381.06	39626381.16	39626381.26	0.2647	0.0988
Mercury	103794-04-02 08:52 G	39631131.84	39631131.87	39631131.90	0.2646	0.2504
Mercury	103801-03-27 10:33 G	39633681.86	39633681.94	39633682.02	0.2650	0.1737
Mercury	103810-10-01 08:52 G	39637156.71	39637156.87	39637157.02	0.2684	0.0843
Mercury	103814-03-30 03:35 G	39638432.54	39638432.65	39638432.75	0.2649	0.0234
Venus	103823-11-14 05:16 G	39641948.56	39641948.72	39641948.87	0.2702	0.0478
Mercury	103827-04-01 20:37 G	39643183.26	39643183.36	39643183.45	0.2647	0.1304
Mercury	103847-03-28 15:06 G	39650484.04	39650484.13	39650484.22	0.2650	0.1430
Mercury	103856-10-01 15:49 G	39653959.00	39653959.16	39653959.32	0.2684	0.0092
Mercury	103860-03-30 08:09 G	39655234.74	39655234.84	39655234.95	0.2649	0.0116
Mercury	103873-04-02 01:11 G	39659985.47	39659985.55	39659985.64	0.2647	0.1620
Mercury	103880-03-26 02:52 G	39662535.62	39662535.62	39662535.63	0.2651	0.2638
Mercury	103893-03-28 19:54 G	39667286.23	39667286.33	39667286.43	0.2650	0.1111
Mercury	103902-10-03 23:01 G	39670761.30	39670761.46	39670761.61	0.2684	0.0676
Mercury	103906-04-01 12:57 G	39672036.93	39672037.04	39672037.15	0.2648	0.0412
Mercury	103919-04-04 05:59 G	39676787.68	39676787.75	39676787.82	0.2647	0.1931
Mercury	103926-03-28 07:40 G	39679337.77	39679337.82	39679337.87	0.2651	0.2324
Mercury	103935-10-01 20:09 G	39682812.29	39682812.34	39682812.40	0.2683	0.2510
Mercury	103939-03-31 00:42 G	39684088.43	39684088.53	39684088.63	0.2649	0.0801
Mercury	103948-10-04 05:59 G	39687563.61	39687563.75	39687563.88	0.2684	0.1415
Mercury	103952-04-01 17:45 G	39688839.13	39688839.24	39688839.34	0.2648	0.0729
Venus	103953-05-15 07:40 G	39689247.66	39689247.82	39689247.97	0.2630	0.0771
Mercury	103965-04-04 10:47 G	39693589.89	39693589.95	39693590.00	0.2646	0.2244
Mercury	103972-03-28 12:13 G	39696139.95	39696140.01	39696140.08	0.2651	0.2014
Mercury	103981-10-02 03:06 G	39699614.51	39699614.63	39699614.75	0.2683	0.1779
Mercury	103985-03-31 05:16 G	39700890.62	39700890.72	39700890.83	0.2649	0.0492
Mercury	103994-10-05 12:57 G	39704365.94	39704366.04	39704366.13	0.2685	0.2162

Mercury 103998-04-02 22:18 G 39705641.34 39705641.43 39705641.53 0.2648 0.1044

105TH MILLENNIUM CE

This is a list of transits visible from Earth in the 105th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	104011-04-05 15:21	G	39710392.12	39710392.14	39710392.17	0.2646	0.2554	
Mercury	104018-03-29 17:01	G	39712942.13	39712942.21	39712942.29	0.2650	0.1700	
Mercury	104027-10-03 10:04	G	39716416.77	39716416.92	39716417.07	0.2683	0.1036	
Mercury	104031-04-01 10:04	G	39717692.81	39717692.92	39717693.03	0.2649	0.0174	
Mercury	104044-04-03 03:06	G	39722443.54	39722443.63	39722443.72	0.2647	0.1348	
Mercury	104064-03-29 21:49	G	39729744.32	39729744.41	39729744.50	0.2650	0.1383	
Venus	104066-11-15 08:09	G	39730704.69	39730704.84	39730705.00	0.2702	0.0573	
Mercury	104073-10-03 17:16	G	39733219.05	39733219.22	39733219.38	0.2684	0.0284	
Mercury	104077-04-01 14:52	G	39734495.01	39734495.12	39734495.23	0.2649	0.0146	
Mercury	104090-04-04 07:54	G	39739245.74	39739245.83	39739245.91	0.2647	0.1662	
Mercury	104097-03-28 09:21	G	39741795.88	39741795.89	39741795.91	0.2651	0.2598	
Mercury	104110-04-01 02:23	G	39746546.51	39746546.60	39746546.70	0.2650	0.1073	
Mercury	104119-10-05 23:59	G	39750021.34	39750021.50	39750021.67	0.2684	0.0464	
Mercury	104123-04-03 19:40	G	39751297.21	39751297.32	39751297.42	0.2649	0.0469	
Mercury	104136-04-05 12:28	G	39756047.95	39756048.02	39756048.09	0.2647	0.1979	
Mercury	104143-03-30 14:09	G	39758598.04	39758598.09	39758598.14	0.2651	0.2284	
Mercury	104156-04-01 07:11	G	39763348.70	39763348.80	39763348.91	0.2650	0.0753	
Mercury	104165-10-06 07:11	G	39766823.65	39766823.80	39766823.94	0.2684	0.1209	

Mercury	104169-04-04 00:13 G	39768099.41	39768099.51	39768099.61	0.2648	0.0776
Mercury	104182-04-06 17:16 G	39772850.17	39772850.22	39772850.27	0.2647	0.2291
Mercury	104189-03-30 18:57 G	39775400.22	39775400.29	39775400.36	0.2651	0.1968
Venus	104196-05-16 06:42 G	39778003.62	39778003.78	39778003.93	0.2631	0.0705
Mercury	104198-10-04 04:33 G	39778874.58	39778874.69	39778874.80	0.2683	0.1968
Mercury	104202-04-03 11:59 G	39780150.89	39780151.00	39780151.11	0.2649	0.0438
Mercury	104211-10-08 14:09 G	39783625.98	39783626.09	39783626.20	0.2684	0.1956
Mercury	104215-04-06 05:01 G	39784901.61	39784901.71	39784901.81	0.2648	0.1089
Mercury	104228-04-07 21:49 G	39789652.40	39789652.41	39789652.43	0.2647	0.2606
Mercury	104235-04-01 23:45 G	39792202.40	39792202.49	39792202.57	0.2650	0.1653
Mercury	104244-10-05 11:30 G	39795676.83	39795676.98	39795677.12	0.2683	0.1224
Mercury	104248-04-03 16:47 G	39796953.09	39796953.20	39796953.30	0.2649	0.0149
Mercury	104261-04-06 09:35 G	39801703.81	39801703.90	39801703.99	0.2648	0.1399
Mercury	104281-04-02 04:18 G	39809004.59	39809004.68	39809004.78	0.2650	0.1339
Mercury	104290-10-06 18:28 G	39812479.11	39812479.27	39812479.43	0.2683	0.0488
Mercury	104294-04-04 21:21 G	39813755.28	39813755.39	39813755.50	0.2649	0.0195
Mercury	104307-04-08 14:23 G	39818506.02	39818506.10	39818506.18	0.2647	0.1711
Venus	104309-11-18 11:16 G	39819460.82	39819460.97	39819461.12	0.2701	0.0663
Mercury	104314-04-01 16:04 G	39821056.14	39821056.17	39821056.19	0.2651	0.2557
Mercury	104327-04-04 09:06 G	39825806.78	39825806.88	39825806.98	0.2650	0.1026
Mercury	104336-10-08 01:25 G	39829281.40	39829281.56	39829281.72	0.2684	0.0269
Mercury	104340-04-06 02:09 G	39830557.48	39830557.59	39830557.69	0.2649	0.0507
Mercury	104353-04-08 19:11 G	39835308.23	39835308.30	39835308.36	0.2647	0.2028
Mercury	104360-04-01 20:52 G	39837858.31	39837858.37	39837858.42	0.2651	0.2244
Mercury	104373-04-04 13:54 G	39842608.97	39842609.08	39842609.18	0.2650	0.0719
Mercury	104382-10-09 08:23 G	39846083.70	39846083.85	39846084.00	0.2684	0.1017
Mercury	104386-04-07 06:42 G	39847359.68	39847359.78	39847359.89	0.2648	0.0819
Mercury	104399-04-09 23:45 G	39852110.45	39852110.49	39852110.54	0.2647	0.2341
Mercury	104406-04-03 01:25 G	39854660.49	39854660.56	39854660.64	0.2651	0.1923
Mercury	104415-10-07 05:45 G	39858134.65	39858134.74	39858134.83	0.2682	0.2171

Mercury	104419-04-05 18:28 G	39859411.17	39859411.27	39859411.38	0.2650	0.0395
Mercury	104428-10-09 15:35 G	39862886.03	39862886.15	39862886.27	0.2684	0.1769
Mercury	104432-04-07 11:30 G	39864161.88	39864161.98	39864162.08	0.2648	0.1132
Venus	104439-05-19 05:59 G	39866759.59	39866759.75	39866759.91	0.2631	0.0684
Mercury	104452-04-03 06:13 G	39871462.68	39871462.76	39871462.85	0.2651	0.1605
Mercury	104461-10-07 12:42 G	39874936.89	39874937.03	39874937.17	0.2682	0.1431
Mercury	104465-04-05 23:16 G	39876213.36	39876213.47	39876213.58	0.2649	0.0083
Mercury	104474-10-10 22:18 G	39879688.38	39879688.43	39879688.49	0.2684	0.2503
Mercury	104478-04-08 16:18 G	39880964.09	39880964.18	39880964.27	0.2648	0.1452
Mercury	104498-04-04 11:01 G	39888264.86	39888264.96	39888265.05	0.2650	0.1296
Mercury	104507-10-09 19:40 G	39891739.17	39891739.32	39891739.48	0.2683	0.0688
Mercury	104511-04-08 03:49 G	39893015.56	39893015.66	39893015.77	0.2649	0.0262
Mercury	104524-04-09 20:52 G	39897766.30	39897766.37	39897766.45	0.2648	0.1765
Mercury	104531-04-03 22:33 G	39900316.41	39900316.44	39900316.47	0.2651	0.2511
Mercury	104544-04-05 15:35 G	39905067.05	39905067.15	39905067.25	0.2650	0.0981
Venus	104552-11-19 14:09 G	39908216.94	39908217.09	39908217.24	0.2701	0.0750
Mercury	104553-10-10 02:52 G	39908541.45	39908541.62	39908541.78	0.2683	0.0090
Mercury	104557-04-08 08:37 G	39909817.76	39909817.86	39909817.97	0.2649	0.0551
Venus	104560-11-17 07:11 G	39911136.78	39911136.80	39911136.83	0.2701	0.2650
Mercury	104570-04-11 01:40 G	39914568.51	39914568.57	39914568.64	0.2647	0.2077
Mercury	104577-04-04 03:21 G	39917118.58	39917118.64	39917118.70	0.2651	0.2197
Mercury	104590-04-06 20:23 G	39921869.24	39921869.35	39921869.45	0.2650	0.0665
Mercury	104599-10-11 09:49 G	39925343.76	39925343.91	39925344.07	0.2683	0.0828
Mercury	104603-04-10 13:25 G	39926619.96	39926620.06	39926620.16	0.2649	0.0866
Mercury	104616-04-12 06:28 G	39931370.73	39931370.77	39931370.81	0.2647	0.2392
Mercury	104623-04-06 07:54 G	39933920.76	39933920.83	39933920.91	0.2651	0.1887
Mercury	104632-10-09 07:11 G	39937394.72	39937394.80	39937394.87	0.2682	0.2362
Mercury	104636-04-08 00:57 G	39938671.44	39938671.54	39938671.65	0.2650	0.0363
Mercury	104645-10-12 16:47 G	39942146.07	39942146.20	39942146.33	0.2684	0.1567
Mercury	104649-04-10 18:13 G	39943422.16	39943422.26	39943422.35	0.2648	0.1189

Mercury	104669-04-06 12:42 G	39950722.94	39950723.03	39950723.12	0.2651	0.1567
Mercury	104678-10-10 14:09 G	39954196.96	39954197.09	39954197.22	0.2682	0.1622
Mercury	104682-04-09 05:45 G	39955473.63	39955473.74	39955473.85	0.2650	0.0052
Venus	104682-05-21 05:01 G	39955515.55	39955515.71	39955515.87	0.2631	0.0618
Mercury	104691-10-13 23:45 G	39958948.41	39958948.49	39958948.57	0.2684	0.2322
Mercury	104695-04-11 22:47 G	39960224.36	39960224.45	39960224.54	0.2648	0.1501
Mercury	104715-04-08 17:30 G	39967525.13	39967525.23	39967525.32	0.2651	0.1248
Mercury	104724-10-11 21:06 G	39970999.22	39970999.38	39970999.53	0.2682	0.0883
Mercury	104728-04-10 10:33 G	39972275.83	39972275.94	39972276.05	0.2649	0.0285
Mercury	104741-04-13 03:35 G	39977026.57	39977026.65	39977026.73	0.2648	0.1812
Mercury	104748-04-06 05:16 G	39979576.68	39979576.72	39979576.75	0.2652	0.2468
Mercury	104761-04-08 22:18 G	39984327.32	39984327.43	39984327.53	0.2650	0.0934
Mercury	104770-10-13 04:04 G	39987801.51	39987801.67	39987801.83	0.2683	0.0136
Mercury	104774-04-11 15:21 G	39989078.03	39989078.14	39989078.24	0.2649	0.0611
Mercury	104787-04-14 08:09 G	39993828.78	39993828.84	39993828.91	0.2648	0.2127
Mercury	104794-04-07 09:49 G	39996378.85	39996378.91	39996378.97	0.2651	0.2151
Venus	104795-11-22 17:16 G	39996973.08	39996973.22	39996973.37	0.2701	0.0846
Venus	104803-11-20 10:18 G	39999892.88	39999892.93	39999892.98	0.2700	0.2555
Mercury	104807-04-10 02:52 G	40001129.52	40001129.62	40001129.73	0.2650	0.0618
Mercury	104816-10-13 11:01 G	40004603.80	40004603.96	40004604.12	0.2683	0.0617
Mercury	104820-04-11 19:54 G	40005880.23	40005880.33	40005880.43	0.2649	0.0923
Mercury	104833-04-14 12:57 G	40010631.00	40010631.04	40010631.08	0.2648	0.2446
Mercury	104840-04-07 14:37 G	40013181.03	40013181.11	40013181.18	0.2651	0.1839
Mercury	104849-10-11 08:23 G	40016654.81	40016654.85	40016654.90	0.2682	0.2561
Mercury	104853-04-10 07:40 G	40017931.71	40017931.82	40017931.93	0.2650	0.0298
Mercury	104862-10-14 18:13 G	40021406.12	40021406.26	40021406.39	0.2684	0.1385
Mercury	104866-04-13 00:42 G	40022682.43	40022682.53	40022682.62	0.2649	0.1234
Mercury	104886-04-08 19:11 G	40029983.22	40029983.30	40029983.39	0.2651	0.1525
Mercury	104895-10-12 15:21 G	40033457.02	40033457.14	40033457.26	0.2682	0.1810
Mercury	104899-04-11 12:28 G	40034733.91	40034734.02	40034734.12	0.2650	0.0079

Mercury	104908-10-16 01:11 G	40038208.45	40038208.55	40038208.64	0.2684	0.2129
Mercury	104912-04-14 05:16 G	40039484.64	40039484.72	40039484.81	0.2648	0.1554
Venus	104925-05-23 04:33 G	40044271.53	40044271.69	40044271.85	0.2632	0.0587
Mercury	104932-04-09 23:59 G	40046785.41	40046785.50	40046785.60	0.2651	0.1201
Mercury	104941-10-13 22:33 G	40050259.29	40050259.44	40050259.59	0.2682	0.1063
Mercury	104945-04-12 17:01 G	40051536.11	40051536.21	40051536.32	0.2649	0.0346
Mercury	104958-04-15 10:04 G	40056286.85	40056286.92	40056287.00	0.2648	0.1865
Mercury	104965-04-08 11:45 G	40058836.95	40058836.99	40058837.03	0.2652	0.2425
Mercury	104978-04-11 04:47 G	40063587.60	40063587.70	40063587.80	0.2651	0.0882
Mercury	104987-10-15 05:30 G	40067061.56	40067061.73	40067061.89	0.2682	0.0329
Mercury	104991-04-13 21:49 G	40068338.31	40068338.41	40068338.51	0.2649	0.0653

106TH MILLENNIUM CE

This is a list of transits visible from Earth in the 106th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	105004-04-16 14:52 G	40073089.06	40073089.12	40073089.18	0.2648	0.2183		
Mercury	105011-04-10 16:33 G	40075639.12	40075639.19	40075639.25	0.2652	0.2105		
Mercury	105024-04-12 09:35 G	40080389.79	40080389.90	40080390.00	0.2650	0.0570		
Mercury	105033-10-16 12:28 G	40083863.86	40083864.02	40083864.18	0.2683	0.0431		
Mercury	105037-04-15 02:23 G	40085140.50	40085140.60	40085140.71	0.2649	0.0975		
Venus	105038-11-24 20:23 G	40085729.20	40085729.35	40085729.49	0.2700	0.0941		
Venus	105046-11-22 13:11 G	40088649.00	40088649.05	40088649.11	0.2700	0.2476		
Mercury	105050-04-17 19:25 G	40089891.28	40089891.31	40089891.35	0.2648	0.2496		

Mercury	105057-04-10 21:06 G	40092441.30	40092441.38	40092441.46	0.2651	0.1786
Mercury	105070-04-13 14:09 G	40097191.99	40097192.09	40097192.20	0.2650	0.0256
Mercury	105079-10-17 19:25 G	40100666.16	40100666.31	40100666.45	0.2683	0.1180
Mercury	105083-04-16 07:11 G	40101942.71	40101942.80	40101942.89	0.2649	0.1285
Mercury	105103-04-13 01:54 G	40109243.49	40109243.58	40109243.67	0.2651	0.1468
Mercury	105112-10-15 16:47 G	40112717.09	40112717.20	40112717.31	0.2682	0.1996
Mercury	105116-04-14 18:57 G	40113994.18	40113994.29	40113994.40	0.2650	0.0076
Mercury	105125-10-19 02:23 G	40117468.49	40117468.60	40117468.71	0.2683	0.1948
Mercury	105129-04-17 11:59 G	40118744.91	40118745.00	40118745.08	0.2649	0.1604
Mercury	105149-04-13 06:42 G	40126045.68	40126045.78	40126045.87	0.2651	0.1154
Mercury	105158-10-16 23:45 G	40129519.35	40129519.49	40129519.64	0.2682	0.1242
Mercury	105162-04-15 23:45 G	40130796.38	40130796.49	40130796.59	0.2650	0.0399
Venus	105168-05-25 03:35 G	40133027.49	40133027.65	40133027.81	0.2632	0.0531
Mercury	105175-04-18 16:47 G	40135547.12	40135547.20	40135547.27	0.2648	0.1927
Mercury	105182-04-11 18:13 G	40138097.22	40138097.26	40138097.31	0.2652	0.2380
Mercury	105195-04-14 11:16 G	40142847.87	40142847.97	40142848.07	0.2651	0.0834
Mercury	105204-10-17 06:42 G	40146321.62	40146321.78	40146321.94	0.2682	0.0503
Mercury	105208-04-16 04:18 G	40147598.58	40147598.68	40147598.79	0.2649	0.0708
Mercury	105221-04-18 21:21 G	40152349.34	40152349.39	40152349.45	0.2648	0.2240
Mercury	105228-04-11 23:01 G	40154899.39	40154899.46	40154899.53	0.2652	0.2057
Mercury	105241-04-14 16:04 G	40159650.06	40159650.17	40159650.27	0.2650	0.0516
Mercury	105250-10-18 13:40 G	40163123.91	40163124.07	40163124.24	0.2682	0.0246
Mercury	105254-04-17 09:06 G	40164400.78	40164400.88	40164400.98	0.2649	0.1023
Mercury	105267-04-20 02:09 G	40169151.56	40169151.59	40169151.61	0.2648	0.2550
Mercury	105274-04-13 03:49 G	40171701.58	40171701.66	40171701.74	0.2652	0.1739
Venus	105281-11-25 23:30 G	40174485.34	40174485.48	40174485.62	0.2700	0.1037
Mercury	105287-04-15 20:52 G	40176452.26	40176452.37	40176452.47	0.2650	0.0222
Venus	105289-11-23 16:33 G	40177405.12	40177405.19	40177405.26	0.2699	0.2352
Mercury	105296-10-18 20:52 G	40179926.22	40179926.37	40179926.52	0.2683	0.1004
Mercury	105300-04-18 13:54 G	40181202.98	40181203.08	40181203.17	0.2649	0.1342

Mercury	105320-04-14 08:23 G	40188503.76	40188503.85	40188503.94	0.2651	0.1419
Mercury	105329-10-17 18:13 G	40191977.17	40191977.26	40191977.35	0.2681	0.2186
Mercury	105333-04-17 01:25 G	40193254.46	40193254.56	40193254.67	0.2650	0.0139
Mercury	105342-10-21 03:49 G	40196728.53	40196728.66	40196728.78	0.2683	0.1752
Mercury	105346-04-19 18:28 G	40198005.19	40198005.27	40198005.36	0.2649	0.1658
Mercury	105353-04-12 20:09 G	40200555.34	40200555.34	40200555.34	0.2653	0.2648
Mercury	105366-04-15 13:11 G	40205305.95	40205306.05	40205306.15	0.2651	0.1102
Mercury	105375-10-19 01:11 G	40208779.41	40208779.55	40208779.68	0.2682	0.1446
Mercury	105379-04-18 06:13 G	40210056.65	40210056.76	40210056.87	0.2650	0.0443
Mercury	105388-10-21 10:47 G	40213530.89	40213530.95	40213531.00	0.2683	0.2504
Mercury	105392-04-19 23:16 G	40214807.40	40214807.47	40214807.54	0.2649	0.1977
Mercury	105399-04-14 00:42 G	40217357.49	40217357.53	40217357.58	0.2652	0.2331
Venus	105411-05-28 02:52 G	40221783.46	40221783.62	40221783.78	0.2632	0.0488
Mercury	105412-04-16 17:59 G	40222108.14	40222108.25	40222108.35	0.2651	0.0787
Mercury	105421-10-20 08:09 G	40225581.68	40225581.84	40225582.00	0.2682	0.0689
Mercury	105425-04-19 11:01 G	40226858.85	40226858.96	40226859.06	0.2650	0.0763
Mercury	105438-04-22 04:04 G	40231609.62	40231609.67	40231609.72	0.2648	0.2297
Mercury	105445-04-15 05:30 G	40234159.66	40234159.73	40234159.80	0.2652	0.2010
Mercury	105458-04-17 22:33 G	40238910.34	40238910.44	40238910.55	0.2651	0.0467
Mercury	105467-10-21 15:06 G	40242383.97	40242384.13	40242384.29	0.2682	0.0072
Mercury	105471-04-20 15:35 G	40243661.06	40243661.15	40243661.25	0.2649	0.1087
Mercury	105484-04-22 08:37 G	40248411.85	40248411.86	40248411.88	0.2648	0.2611
Mercury	105491-04-16 10:18 G	40250961.85	40250961.93	40250962.01	0.2652	0.1688
Mercury	105504-04-19 03:21 G	40255712.53	40255712.64	40255712.75	0.2650	0.0144
Mercury	105513-10-22 22:04 G	40259186.26	40259186.42	40259186.57	0.2682	0.0809
Mercury	105517-04-21 20:23 G	40260463.26	40260463.35	40260463.44	0.2649	0.1397
Venus	105524-11-29 02:37 G	40263241.47	40263241.61	40263241.75	0.2700	0.1138
Venus	105532-11-26 19:25 G	40266161.23	40266161.31	40266161.39	0.2699	0.2285
Mercury	105537-04-17 15:06 G	40267764.03	40267764.13	40267764.22	0.2652	0.1373
Mercury	105546-10-20 19:25 G	40271237.24	40271237.31	40271237.39	0.2681	0.2373

Mercury	105550-04-20 08:09 G	40272514.73	40272514.84	40272514.94	0.2650	0.0188
Mercury	105559-10-24 05:01 G	40275988.58	40275988.71	40275988.84	0.2683	0.1566
Mercury	105563-04-23 01:11 G	40277265.47	40277265.55	40277265.63	0.2649	0.1716
Mercury	105570-04-16 02:37 G	40279815.59	40279815.61	40279815.63	0.2653	0.2599
Mercury	105583-04-18 19:40 G	40284566.22	40284566.32	40284566.42	0.2651	0.1055
Mercury	105592-10-21 02:37 G	40288039.48	40288039.61	40288039.73	0.2681	0.1618
Mercury	105596-04-20 12:42 G	40289316.93	40289317.03	40289317.14	0.2650	0.0501
Mercury	105605-10-24 11:59 G	40292790.92	40292791.00	40292791.08	0.2683	0.2324
Mercury	105609-04-23 05:45 G	40294067.67	40294067.74	40294067.81	0.2649	0.2031
Mercury	105616-04-16 07:25 G	40296617.75	40296617.81	40296617.86	0.2653	0.2280
Mercury	105629-04-19 00:28 G	40301368.42	40301368.52	40301368.62	0.2651	0.0729
Mercury	105638-10-22 09:35 G	40304841.74	40304841.90	40304842.05	0.2681	0.0869
Mercury	105642-04-21 17:30 G	40306119.13	40306119.23	40306119.33	0.2650	0.0816
Venus	105654-05-29 02:09 G	40310539.43	40310539.59	40310539.75	0.2633	0.0435
Mercury	105655-04-24 10:33 G	40310869.89	40310869.94	40310869.99	0.2648	0.2347
Mercury	105662-04-17 11:59 G	40313419.93	40313420.00	40313420.08	0.2652	0.1961
Mercury	105675-04-20 05:16 G	40318170.61	40318170.72	40318170.82	0.2651	0.0407
Mercury	105684-10-22 16:18 G	40321644.02	40321644.18	40321644.35	0.2682	0.0146
Mercury	105688-04-21 22:18 G	40322921.33	40322921.43	40322921.52	0.2650	0.1137
Mercury	105708-04-18 16:47 G	40330222.12	40330222.20	40330222.29	0.2652	0.1639
Mercury	105721-04-21 09:49 G	40334972.81	40334972.91	40334973.02	0.2651	0.0127
Mercury	105730-10-24 23:30 G	40338446.32	40338446.48	40338446.64	0.2682	0.0630
Mercury	105734-04-24 02:52 G	40339723.53	40339723.62	40339723.71	0.2649	0.1456
Mercury	105754-04-19 21:35 G	40347024.31	40347024.40	40347024.49	0.2652	0.1319
Mercury	105763-10-22 21:06 G	40350497.33	40350497.38	40350497.43	0.2680	0.2533
Mercury	105767-04-22 14:37 G	40351775.00	40351775.11	40351775.22	0.2651	0.0232
Venus	105767-12-01 05:30 G	40351997.60	40351997.73	40351997.87	0.2699	0.1222
Venus	105775-11-28 22:47 G	40354917.36	40354917.45	40354917.54	0.2699	0.2182
Mercury	105776-10-25 06:28 G	40355248.63	40355248.77	40355248.91	0.2682	0.1382
Mercury	105780-04-24 07:40 G	40356525.74	40356525.82	40356525.90	0.2649	0.1773

Mercury	105787-04-18 09:06 G	40359075.86	40359075.88	40359075.91	0.2653	0.2553
Mercury	105800-04-21 02:23 G	40363826.50	40363826.60	40363826.70	0.2652	0.0997
Mercury	105809-10-24 03:49 G	40367299.54	40367299.66	40367299.78	0.2681	0.1799
Mercury	105813-04-23 19:25 G	40368577.20	40368577.31	40368577.41	0.2650	0.0558
Mercury	105822-10-27 13:25 G	40372050.97	40372051.06	40372051.16	0.2683	0.2150
Mercury	105826-04-26 12:28 G	40373327.95	40373328.02	40373328.08	0.2649	0.2088
Mercury	105833-04-19 13:54 G	40375878.03	40375878.08	40375878.14	0.2653	0.2230
Mercury	105846-04-22 06:56 G	40380628.69	40380628.79	40380628.90	0.2651	0.0680
Mercury	105855-10-25 10:47 G	40384101.81	40384101.95	40384102.10	0.2681	0.1053
Mercury	105859-04-24 23:59 G	40385379.40	40385379.50	40385379.60	0.2650	0.0872
Mercury	105872-04-26 17:01 G	40390130.17	40390130.21	40390130.26	0.2649	0.2410
Mercury	105879-04-20 18:42 G	40392680.21	40392680.28	40392680.35	0.2653	0.1912
Mercury	105892-04-22 11:44 G	40397430.88	40397430.99	40397431.10	0.2651	0.0360
Venus	105897-05-31 01:11 G	40399295.39	40399295.55	40399295.71	0.2633	0.0369
Mercury	105901-10-26 17:59 G	40400904.08	40400904.25	40400904.41	0.2681	0.0306
Mercury	105905-04-26 04:47 G	40402181.60	40402181.70	40402181.80	0.2650	0.1189
Mercury	105925-04-21 23:30 G	40409482.39	40409482.48	40409482.56	0.2652	0.1590
Mercury	105938-04-24 16:32 G	40414233.08	40414233.19	40414233.29	0.2651	0.0102
Mercury	105947-10-28 00:42 G	40417706.37	40417706.53	40417706.70	0.2682	0.0458
Mercury	105951-04-27 09:35 G	40418983.81	40418983.90	40418983.99	0.2650	0.1508
Mercury	105971-04-23 04:04 G	40426284.58	40426284.67	40426284.77	0.2652	0.1264
Mercury	105984-04-24 21:06 G	40431035.28	40431035.38	40431035.49	0.2651	0.0301
Mercury	105993-10-28 07:40 G	40434508.68	40434508.82	40434508.97	0.2682	0.1201
Mercury	105997-04-27 14:08 G	40435786.02	40435786.09	40435786.17	0.2649	0.1832

107TH MILLENNIUM CE

This is a list of transits visible from Earth in the 107th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	106004-04-20 15:49	G	40438336.12	40438336.16	40438336.19	0.2653	0.2501	
Venus	106010-12-03 08:52	G	40440753.74	40440753.87	40440754.00	0.2699	0.1332	
Mercury	106017-04-23 08:52	G	40443086.77	40443086.87	40443086.97	0.2652	0.0940	
Venus	106018-12-01 01:40	G	40443673.48	40443673.57	40443673.67	0.2698	0.2091	
Mercury	106026-10-26 05:16	G	40446559.61	40446559.72	40446559.83	0.2681	0.1975	
Mercury	106030-04-26 01:54	G	40447837.48	40447837.58	40447837.69	0.2650	0.0608	
Mercury	106039-10-29 14:37	G	40451311.00	40451311.11	40451311.22	0.2682	0.1940	
Mercury	106043-04-28 18:56	G	40452588.23	40452588.29	40452588.35	0.2649	0.2150	
Mercury	106050-04-21 20:23	G	40455138.29	40455138.35	40455138.41	0.2653	0.2182	
Mercury	106063-04-24 13:40	G	40459888.96	40459889.07	40459889.17	0.2652	0.0633	
Mercury	106072-10-26 12:13	G	40463361.87	40463362.01	40463362.16	0.2681	0.1228	
Mercury	106076-04-26 06:42	G	40464639.68	40464639.78	40464639.88	0.2650	0.0928	
Mercury	106089-04-28 23:44	G	40469390.45	40469390.49	40469390.52	0.2649	0.2468	
Mercury	106096-04-22 01:11	G	40471940.47	40471940.55	40471940.63	0.2653	0.1857	
Mercury	106109-04-25 18:13	G	40476691.15	40476691.26	40476691.37	0.2651	0.0309	
Mercury	106118-10-28 19:11	G	40480164.14	40480164.30	40480164.46	0.2681	0.0479	
Mercury	106122-04-28 11:30	G	40481441.88	40481441.98	40481442.07	0.2650	0.1251	
Venus	106140-06-02 00:28	G	40488051.36	40488051.52	40488051.68	0.2634	0.0320	
Mercury	106142-04-24 05:59	G	40488742.66	40488742.75	40488742.83	0.2653	0.1538	
Mercury	106155-04-26 23:01	G	40493493.35	40493493.46	40493493.57	0.2651	0.0023	
Mercury	106164-10-29 02:08	G	40496966.43	40496966.59	40496966.75	0.2681	0.0270	
Mercury	106168-04-28 16:04	G	40498244.09	40498244.17	40498244.26	0.2650	0.1569	
Mercury	106188-04-24 10:32	G	40505544.85	40505544.94	40505545.04	0.2652	0.1218	
Mercury	106201-04-28 03:49	G	40510295.55	40510295.66	40510295.77	0.2651	0.0346	
Mercury	106210-10-31 09:06	G	40513768.73	40513768.88	40513769.03	0.2682	0.1013	

Mercury	106214-04-30 20:52 G	40515046.29	40515046.37	40515046.44	0.2649	0.1886
Mercury	106221-04-23 22:18 G	40517596.39	40517596.43	40517596.47	0.2654	0.2451
Mercury	106234-04-26 15:20 G	40522347.04	40522347.14	40522347.24	0.2652	0.0892
Mercury	106243-10-29 06:42 G	40525819.68	40525819.78	40525819.87	0.2680	0.2165
Mercury	106247-04-29 08:23 G	40527097.75	40527097.85	40527097.96	0.2651	0.0668
Venus	106253-12-05 11:44 G	40529509.86	40529509.99	40529510.12	0.2699	0.1403
Mercury	106256-10-31 16:04 G	40530571.05	40530571.17	40530571.29	0.2682	0.1772
Mercury	106260-05-01 01:25 G	40531848.51	40531848.56	40531848.62	0.2649	0.2202
Venus	106261-12-03 04:47 G	40532429.60	40532429.70	40532429.81	0.2698	0.2002
Mercury	106267-04-25 03:06 G	40534398.56	40534398.63	40534398.69	0.2653	0.2127
Mercury	106280-04-26 20:08 G	40539149.23	40539149.34	40539149.44	0.2652	0.0567
Mercury	106289-10-29 13:40 G	40542621.93	40542622.07	40542622.20	0.2680	0.1411
Mercury	106293-04-29 13:11 G	40543899.95	40543900.05	40543900.15	0.2650	0.0980
Mercury	106302-11-02 23:01 G	40547373.41	40547373.46	40547373.51	0.2682	0.2519
Mercury	106306-05-03 06:13 G	40548650.73	40548650.76	40548650.79	0.2649	0.2522
Mercury	106313-04-26 07:40 G	40551200.75	40551200.82	40551200.90	0.2653	0.1808
Mercury	106326-04-29 00:56 G	40555951.43	40555951.54	40555951.64	0.2652	0.0252
Mercury	106335-10-31 20:37 G	40559424.20	40559424.36	40559424.52	0.2681	0.0661
Mercury	106339-05-01 17:59 G	40560702.15	40560702.25	40560702.34	0.2650	0.1308
Mercury	106359-04-27 12:28 G	40568002.93	40568003.02	40568003.11	0.2653	0.1482
Mercury	106372-04-29 05:30 G	40572753.63	40572753.73	40572753.84	0.2651	0.0123
Mercury	106381-11-01 03:35 G	40576226.49	40576226.65	40576226.81	0.2681	0.0091
Venus	106383-06-04 23:30 G	40576807.31	40576807.48	40576807.64	0.2634	0.0248
Mercury	106385-05-01 22:32 G	40577504.36	40577504.44	40577504.53	0.2650	0.1630
Mercury	106405-04-27 17:16 G	40584805.12	40584805.22	40584805.32	0.2653	0.1159
Mercury	106418-04-30 10:18 G	40589555.82	40589555.93	40589556.04	0.2651	0.0397
Mercury	106427-11-02 10:32 G	40593028.78	40593028.94	40593029.09	0.2681	0.0839
Mercury	106431-05-03 03:20 G	40594306.57	40594306.64	40594306.71	0.2650	0.1946
Mercury	106438-04-26 04:47 G	40596856.66	40596856.70	40596856.74	0.2654	0.2399
Mercury	106451-04-28 22:04 G	40601607.31	40601607.42	40601607.52	0.2652	0.0842

Mercury	106460-10-30 08:08 G	40605079.76	40605079.84	40605079.92	0.2680	0.2325
Mercury	106464-04-30 15:06 G	40606358.02	40606358.13	40606358.23	0.2651	0.0725
Mercury	106473-11-02 17:30 G	40609831.10	40609831.23	40609831.36	0.2682	0.1589
Mercury	106477-05-03 08:08 G	40611108.78	40611108.84	40611108.89	0.2649	0.2264
Mercury	106484-04-26 09:35 G	40613658.83	40613658.90	40613658.97	0.2653	0.2075
Venus	106496-12-06 14:52 G	40618265.99	40618266.12	40618266.25	0.2698	0.1500
Mercury	106497-04-29 02:37 G	40618409.51	40618409.61	40618409.72	0.2652	0.0517
Venus	106504-12-05 07:40 G	40621185.72	40621185.82	40621185.93	0.2697	0.1926
Mercury	106506-11-01 15:06 G	40621882.00	40621882.13	40621882.26	0.2680	0.1581
Mercury	106510-05-02 19:40 G	40623160.22	40623160.32	40623160.42	0.2651	0.1042
Mercury	106519-11-05 00:28 G	40626633.45	40626633.52	40626633.60	0.2682	0.2354
Mercury	106523-05-05 12:42 G	40627911.01	40627911.03	40627911.05	0.2649	0.2584
Mercury	106530-04-28 14:23 G	40630461.02	40630461.10	40630461.18	0.2653	0.1755
Mercury	106543-05-01 07:25 G	40635211.70	40635211.81	40635211.92	0.2652	0.0197
Mercury	106552-11-01 22:04 G	40638684.26	40638684.42	40638684.57	0.2680	0.0827
Mercury	106556-05-03 00:28 G	40639962.43	40639962.52	40639962.61	0.2650	0.1360
Mercury	106576-04-28 18:56 G	40647263.20	40647263.29	40647263.38	0.2653	0.1432
Mercury	106589-05-01 11:59 G	40652013.90	40652014.00	40652014.11	0.2652	0.0171
Mercury	106598-11-03 04:47 G	40655486.54	40655486.70	40655486.87	0.2681	0.0120
Mercury	106602-05-05 05:16 G	40656764.64	40656764.72	40656764.80	0.2650	0.1686
Mercury	106622-04-30 23:44 G	40664065.39	40664065.49	40664065.59	0.2653	0.1101
Venus	106626-06-06 22:47 G	40665563.28	40665563.45	40665563.61	0.2634	0.0195
Mercury	106635-05-03 16:47 G	40668816.10	40668816.20	40668816.31	0.2651	0.0461
Mercury	106644-11-04 11:44 G	40672288.84	40672288.99	40672289.15	0.2681	0.0654
Mercury	106648-05-05 10:04 G	40673566.85	40673566.92	40673566.98	0.2650	0.2011
Mercury	106655-04-29 11:16 G	40676116.93	40676116.97	40676117.02	0.2654	0.2350
Mercury	106668-05-01 04:32 G	40680867.58	40680867.69	40680867.79	0.2652	0.0779
Mercury	106677-11-02 09:35 G	40684339.84	40684339.90	40684339.95	0.2680	0.2492
Mercury	106681-05-03 21:35 G	40685618.30	40685618.40	40685618.50	0.2651	0.0782
Mercury	106690-11-05 18:56 G	40689091.15	40689091.29	40689091.42	0.2681	0.1418

Mercury	106694-05-06 14:37 G	40690369.06	40690369.11	40690369.16	0.2649	0.2329
Mercury	106701-04-30 16:04 G	40692919.10	40692919.17	40692919.24	0.2654	0.2022
Mercury	106714-05-03 09:06 G	40697669.78	40697669.88	40697669.99	0.2652	0.0463
Mercury	106723-11-04 16:32 G	40701142.07	40701142.19	40701142.31	0.2680	0.1745
Mercury	106727-05-06 02:23 G	40702420.50	40702420.60	40702420.70	0.2651	0.1103
Mercury	106736-11-07 01:40 G	40705893.48	40705893.57	40705893.67	0.2682	0.2175
Venus	106739-12-10 17:44 G	40707022.12	40707022.24	40707022.37	0.2698	0.1576
Mercury	106740-05-07 19:25 G	40707171.31	40707171.31	40707171.31	0.2649	0.2648
Mercury	106747-05-01 20:52 G	40709721.29	40709721.37	40709721.45	0.2653	0.1700
Venus	106747-12-08 10:47 G	40709941.84	40709941.95	40709942.07	0.2697	0.1837
Mercury	106760-05-03 13:54 G	40714471.97	40714472.08	40714472.19	0.2652	0.0135
Mercury	106769-11-04 23:30 G	40717944.33	40717944.48	40717944.63	0.2680	0.1009
Mercury	106773-05-06 06:56 G	40719222.70	40719222.79	40719222.88	0.2651	0.1426
Mercury	106793-05-02 01:25 G	40726523.47	40726523.56	40726523.66	0.2653	0.1377
Mercury	106806-05-04 18:42 G	40731274.17	40731274.28	40731274.39	0.2652	0.0194
Mercury	106815-11-06 06:28 G	40734746.60	40734746.77	40734746.93	0.2680	0.0259
Mercury	106819-05-07 11:44 G	40736024.91	40736024.99	40736025.07	0.2650	0.1746
Mercury	106826-04-30 13:11 G	40738575.03	40738575.05	40738575.06	0.2654	0.2619
Mercury	106839-05-03 06:13 G	40743325.66	40743325.76	40743325.86	0.2653	0.1049
Mercury	106852-05-04 23:30 G	40748076.37	40748076.48	40748076.58	0.2652	0.0524
Mercury	106861-11-06 13:25 G	40751548.90	40751549.06	40751549.21	0.2681	0.0503
Mercury	106865-05-07 16:32 G	40752827.12	40752827.19	40752827.25	0.2650	0.2068
Venus	106869-06-07 21:49 G	40754319.24	40754319.41	40754319.57	0.2635	0.0110
Mercury	106872-04-30 17:44 G	40755377.19	40755377.24	40755377.30	0.2654	0.2295
Mercury	106885-05-03 11:01 G	40760127.86	40760127.96	40760128.06	0.2653	0.0718
Mercury	106894-11-04 11:01 G	40763599.94	40763599.96	40763599.97	0.2679	0.2659
Mercury	106898-05-06 04:04 G	40764878.57	40764878.67	40764878.78	0.2651	0.0848
Mercury	106907-11-08 20:08 G	40768351.20	40768351.34	40768351.49	0.2681	0.1236
Mercury	106911-05-09 21:06 G	40769629.34	40769629.38	40769629.43	0.2650	0.2390
Mercury	106918-05-02 22:32 G	40772179.37	40772179.44	40772179.51	0.2654	0.1967

Mercury	106931-05-05 15:49 G	40776930.05	40776930.16	40776930.27	0.2652	0.0395
Mercury	106940-11-05 17:44 G	40780402.13	40780402.24	40780402.36	0.2680	0.1925
Mercury	106944-05-07 08:52 G	40781680.77	40781680.87	40781680.97	0.2651	0.1163
Mercury	106953-11-09 03:06 G	40785153.52	40785153.63	40785153.74	0.2681	0.1988
Mercury	106964-05-03 03:20 G	40788981.56	40788981.64	40788981.72	0.2653	0.1638
Mercury	106977-05-05 20:37 G	40793732.25	40793732.36	40793732.46	0.2652	0.0125
Venus	106982-12-11 20:52 G	40795778.25	40795778.37	40795778.49	0.2698	0.1684
Mercury	106986-11-07 00:56 G	40797204.39	40797204.54	40797204.68	0.2680	0.1165
Mercury	106990-05-08 13:40 G	40798482.98	40798483.07	40798483.16	0.2651	0.1487
Venus	106990-12-09 13:54 G	40798697.96	40798698.08	40798698.20	0.2697	0.1752

108TH MILLENNIUM CE

This is a list of transits visible from Earth in the 108th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	107010-05-05 08:08 G	40805783.74	40805783.84	40805783.93	0.2653	0.1315		
Mercury	107023-05-08 01:11 G	40810534.44	40810534.55	40810534.66	0.2652	0.0260		
Mercury	107032-11-08 07:54 G	40814006.67	40814006.83	40814006.99	0.2680	0.0417		
Mercury	107036-05-09 18:13 G	40815285.19	40815285.26	40815285.34	0.2650	0.1813		
Mercury	107043-05-03 19:40 G	40817835.30	40817835.32	40817835.34	0.2655	0.2568		
Mercury	107056-05-05 12:56 G	40822585.94	40822586.04	40822586.14	0.2653	0.0994		
Mercury	107069-05-08 05:59 G	40827336.64	40827336.75	40827336.85	0.2652	0.0579		
Mercury	107078-11-09 14:52 G	40830808.95	40830809.12	40830809.28	0.2680	0.0335		
Mercury	107082-05-10 23:01 G	40832087.40	40832087.46	40832087.52	0.2650	0.2131		

Mercury	107089-05-04 00:28 G	40834637.46	40834637.52	40834637.57	0.2654	0.2239
Mercury	107102-05-07 17:30 G	40839388.13	40839388.23	40839388.34	0.2653	0.0669
Venus	107112-06-10 21:06 G	40843075.22	40843075.38	40843075.55	0.2635	0.0094
Mercury	107115-05-10 10:32 G	40844138.84	40844138.94	40844139.05	0.2651	0.0910
Mercury	107124-11-10 21:35 G	40847611.25	40847611.40	40847611.55	0.2681	0.1071
Mercury	107128-05-12 03:49 G	40848889.62	40848889.66	40848889.69	0.2650	0.2454
Mercury	107135-05-06 05:16 G	40851439.64	40851439.72	40851439.79	0.2654	0.1906
Mercury	107148-05-07 22:18 G	40856190.32	40856190.43	40856190.54	0.2652	0.0335
Mercury	107157-11-08 19:25 G	40859662.21	40859662.31	40859662.41	0.2679	0.2070
Mercury	107161-05-10 15:20 G	40860941.05	40860941.14	40860941.24	0.2651	0.1221
Mercury	107170-11-12 04:32 G	40864413.58	40864413.69	40864413.81	0.2681	0.1827
Mercury	107181-05-06 09:49 G	40868241.83	40868241.91	40868242.00	0.2654	0.1582
Mercury	107194-05-09 03:06 G	40872992.52	40872992.63	40872992.74	0.2652	0.0067
Mercury	107203-11-10 02:23 G	40876464.46	40876464.60	40876464.74	0.2680	0.1331
Mercury	107207-05-11 20:08 G	40877743.25	40877743.34	40877743.43	0.2651	0.1548
Mercury	107216-11-12 11:30 G	40881215.95	40881215.98	40881216.02	0.2681	0.2589
Venus	107225-12-13 23:59 G	40884534.38	40884534.50	40884534.62	0.2697	0.1758
Mercury	107227-05-07 14:37 G	40885044.02	40885044.11	40885044.21	0.2653	0.1254
Venus	107233-12-11 17:01 G	40887454.09	40887454.21	40887454.33	0.2696	0.1658
Mercury	107240-05-09 07:40 G	40889794.72	40889794.82	40889794.93	0.2652	0.0327
Mercury	107249-11-10 09:20 G	40893266.73	40893266.89	40893267.05	0.2680	0.0587
Mercury	107253-05-12 00:56 G	40894545.46	40894545.54	40894545.61	0.2651	0.1876
Mercury	107260-05-05 02:08 G	40897095.56	40897095.59	40897095.62	0.2655	0.2509
Mercury	107273-05-07 19:25 G	40901846.21	40901846.31	40901846.41	0.2653	0.0930
Mercury	107286-05-10 12:28 G	40906596.92	40906597.02	40906597.13	0.2652	0.0640
Mercury	107295-11-11 16:04 G	40910069.01	40910069.17	40910069.34	0.2680	0.0164
Mercury	107299-05-13 05:30 G	40911347.68	40911347.73	40911347.79	0.2650	0.2204
Mercury	107306-05-07 06:56 G	40913897.73	40913897.79	40913897.85	0.2655	0.2178
Mercury	107319-05-09 23:59 G	40918648.40	40918648.50	40918648.61	0.2653	0.0610
Mercury	107332-05-11 17:16 G	40923399.12	40923399.22	40923399.32	0.2651	0.0965

Mercury	107341-11-12 23:01 G	40926871.31	40926871.46	40926871.62	0.2680	0.0910
Mercury	107345-05-14 10:18 G	40928149.90	40928149.93	40928149.96	0.2650	0.2522
Mercury	107352-05-07 11:44 G	40930699.91	40930699.99	40930700.06	0.2654	0.1850
Venus	107355-06-12 20:23 G	40931831.19	40931831.35	40931831.51	0.2636	0.0022
Mercury	107365-05-10 04:47 G	40935450.59	40935450.70	40935450.81	0.2653	0.0278
Mercury	107374-11-10 20:52 G	40938922.29	40938922.37	40938922.46	0.2679	0.2234
Mercury	107378-05-12 22:04 G	40940201.32	40940201.42	40940201.51	0.2651	0.1296
Mercury	107387-11-14 05:59 G	40943673.63	40943673.75	40943673.88	0.2681	0.1669
Mercury	107398-05-08 16:18 G	40947502.10	40947502.18	40947502.27	0.2654	0.1528
Mercury	107411-05-12 09:35 G	40952252.79	40952252.90	40952253.01	0.2652	0.0058
Mercury	107420-11-12 03:49 G	40955724.53	40955724.66	40955724.80	0.2679	0.1487
Mercury	107424-05-14 02:37 G	40957003.53	40957003.61	40957003.70	0.2651	0.1617
Mercury	107433-11-15 12:56 G	40960475.97	40960476.04	40960476.11	0.2681	0.2414
Mercury	107444-05-09 21:06 G	40964304.29	40964304.38	40964304.48	0.2654	0.1199
Mercury	107457-05-12 14:23 G	40969054.99	40969055.10	40969055.20	0.2652	0.0383
Mercury	107466-11-13 10:47 G	40972526.79	40972526.95	40972527.10	0.2679	0.0744
Venus	107468-12-16 03:06 G	40973290.52	40973290.63	40973290.74	0.2697	0.1864
Mercury	107470-05-15 07:25 G	40973805.74	40973805.81	40973805.88	0.2651	0.1937
Venus	107476-12-13 19:54 G	40976210.21	40976210.33	40976210.46	0.2696	0.1587
Mercury	107477-05-08 08:37 G	40976355.83	40976355.86	40976355.90	0.2655	0.2449
Mercury	107490-05-11 01:54 G	40981106.48	40981106.58	40981106.68	0.2653	0.0866
Mercury	107503-05-14 18:56 G	40985857.19	40985857.29	40985857.40	0.2652	0.0715
Mercury	107512-11-14 17:44 G	40989329.07	40989329.24	40989329.40	0.2680	0.0060
Mercury	107516-05-16 12:13 G	40990607.95	40990608.01	40990608.06	0.2651	0.2262
Mercury	107523-05-10 13:25 G	40993158.00	40993158.06	40993158.12	0.2655	0.2121
Mercury	107536-05-12 06:42 G	40997908.67	40997908.78	40997908.88	0.2653	0.0538
Mercury	107549-05-14 23:44 G	41002659.39	41002659.49	41002659.59	0.2652	0.1038
Mercury	107558-11-16 00:27 G	41006131.37	41006131.52	41006131.68	0.2680	0.0742
Mercury	107562-05-17 16:47 G	41007410.19	41007410.20	41007410.22	0.2650	0.2592
Mercury	107569-05-10 18:13 G	41009960.18	41009960.26	41009960.34	0.2654	0.1793

Mercury	107582-05-13 11:30 G	41014710.87	41014710.98	41014711.08	0.2653	0.0227
Mercury	107591-11-13 22:32 G	41018182.37	41018182.44	41018182.51	0.2679	0.2384
Mercury	107595-05-16 04:32 G	41019461.60	41019461.69	41019461.78	0.2651	0.1359
Venus	107598-06-14 19:54 G	41020587.16	41020587.33	41020587.49	0.2636	0.0065
Mercury	107604-11-16 07:25 G	41022933.68	41022933.81	41022933.95	0.2680	0.1491
Mercury	107615-05-11 23:01 G	41026762.37	41026762.46	41026762.55	0.2654	0.1465
Mercury	107628-05-13 16:03 G	41031513.07	41031513.17	41031513.28	0.2653	0.0145
Mercury	107637-11-14 05:15 G	41034984.60	41034984.72	41034984.85	0.2679	0.1646
Mercury	107641-05-16 09:20 G	41036263.80	41036263.89	41036263.97	0.2651	0.1682
Mercury	107650-11-17 14:23 G	41039736.02	41039736.10	41039736.19	0.2681	0.2255
Mercury	107661-05-12 03:35 G	41043564.56	41043564.65	41043564.75	0.2654	0.1135
Mercury	107674-05-14 20:51 G	41048315.26	41048315.37	41048315.48	0.2652	0.0441
Mercury	107683-11-15 12:13 G	41051786.86	41051787.01	41051787.17	0.2679	0.0894
Mercury	107687-05-17 13:54 G	41053066.01	41053066.08	41053066.15	0.2651	0.2003
Mercury	107694-05-10 15:06 G	41055616.09	41055616.13	41055616.18	0.2655	0.2395
Mercury	107707-05-14 08:23 G	41060366.75	41060366.85	41060366.96	0.2654	0.0810
Venus	107711-12-19 05:59 G	41062046.64	41062046.75	41062046.86	0.2697	0.1923
Venus	107719-12-16 23:01 G	41064966.33	41064966.46	41064966.59	0.2695	0.1495
Mercury	107720-05-16 01:39 G	41065117.46	41065117.57	41065117.67	0.2652	0.0772
Mercury	107729-11-16 19:11 G	41068589.14	41068589.30	41068589.46	0.2679	0.0153
Mercury	107733-05-18 18:42 G	41069868.23	41069868.28	41069868.33	0.2651	0.2330
Mercury	107740-05-11 19:54 G	41072418.27	41072418.33	41072418.40	0.2655	0.2063
Mercury	107753-05-14 13:11 G	41077168.94	41077169.05	41077169.16	0.2653	0.0478
Mercury	107766-05-17 06:13 G	41081919.67	41081919.76	41081919.86	0.2652	0.1100
Mercury	107775-11-18 02:08 G	41085391.43	41085391.59	41085391.75	0.2680	0.0589
Mercury	107786-05-13 00:42 G	41089220.45	41089220.53	41089220.61	0.2655	0.1730
Mercury	107799-05-15 17:59 G	41093971.14	41093971.25	41093971.36	0.2653	0.0152
Mercury	107808-11-15 23:59 G	41097442.45	41097442.50	41097442.55	0.2678	0.2540
Mercury	107812-05-18 11:01 G	41098721.87	41098721.96	41098722.05	0.2652	0.1420
Mercury	107821-11-19 08:51 G	41102193.73	41102193.87	41102194.01	0.2680	0.1328

Mercury	107832-05-14 05:30 G	41106022.64	41106022.73	41106022.82	0.2654	0.1396
Venus	107841-06-16 18:56 G	41109343.13	41109343.29	41109343.45	0.2637	0.0145
Mercury	107845-05-16 22:47 G	41110773.34	41110773.45	41110773.55	0.2653	0.0215
Mercury	107854-11-17 06:56 G	41114244.67	41114244.79	41114244.91	0.2679	0.1798
Mercury	107858-05-19 15:49 G	41115524.08	41115524.16	41115524.24	0.2651	0.1745
Mercury	107867-11-20 15:49 G	41118996.06	41118996.16	41118996.26	0.2680	0.2075
Mercury	107878-05-15 10:18 G	41122824.83	41122824.93	41122825.03	0.2654	0.1070
Mercury	107891-05-18 03:20 G	41127575.54	41127575.64	41127575.75	0.2653	0.0509
Mercury	107900-11-18 13:39 G	41131046.93	41131047.07	41131047.22	0.2679	0.1063
Mercury	107904-05-20 20:23 G	41132326.29	41132326.35	41132326.42	0.2651	0.2077
Mercury	107911-05-14 21:49 G	41134876.36	41134876.41	41134876.46	0.2655	0.2333
Mercury	107924-05-16 14:51 G	41139627.02	41139627.12	41139627.23	0.2654	0.0749
Mercury	107937-05-19 08:08 G	41144377.74	41144377.84	41144377.94	0.2652	0.0833
Mercury	107946-11-19 20:37 G	41147849.20	41147849.36	41147849.52	0.2679	0.0316
Mercury	107950-05-22 01:11 G	41149128.51	41149128.55	41149128.60	0.2651	0.2400
Venus	107954-12-21 09:06 G	41150802.78	41150802.88	41150802.98	0.2696	0.2023
Mercury	107957-05-15 02:23 G	41151678.54	41151678.60	41151678.67	0.2655	0.2005
Venus	107962-12-19 01:54 G	41153722.45	41153722.58	41153722.71	0.2695	0.1443
Mercury	107970-05-17 19:39 G	41156429.21	41156429.32	41156429.43	0.2654	0.0417
Mercury	107983-05-20 12:56 G	41161179.94	41161180.04	41161180.13	0.2652	0.1164
Mercury	107992-11-20 03:35 G	41164651.49	41164651.65	41164651.81	0.2679	0.0428

109TH MILLENNIUM CE

This is a list of transits visible from Earth in the 109th millennium CE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
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TRANSIT

TIME

Mercury	108003-05-16 07:11 G	41168480.72	41168480.80	41168480.89	0.2655	0.1672
Mercury	108016-05-18 00:27 G	41173231.41	41173231.52	41173231.63	0.2653	0.0094
Mercury	108029-05-20 17:30 G	41177982.14	41177982.23	41177982.32	0.2652	0.1488
Mercury	108038-11-21 10:18 G	41181453.79	41181453.93	41181454.08	0.2680	0.1168
Mercury	108049-05-16 11:59 G	41185282.91	41185283.00	41185283.09	0.2655	0.1339
Mercury	108062-05-19 05:15 G	41190033.61	41190033.72	41190033.82	0.2653	0.0259
Mercury	108071-11-19 08:23 G	41193504.74	41193504.85	41193504.96	0.2678	0.1950
Mercury	108075-05-21 22:18 G	41194784.35	41194784.43	41194784.51	0.2651	0.1812
Mercury	108082-05-14 23:30 G	41197334.46	41197334.48	41197334.50	0.2656	0.2601
Venus	108084-06-17 18:27 G	41198099.10	41198099.27	41198099.43	0.2637	0.0186
Mercury	108084-11-21 17:15 G	41198256.11	41198256.22	41198256.33	0.2680	0.1923
Mercury	108095-05-17 16:47 G	41202085.10	41202085.20	41202085.30	0.2654	0.1011
Mercury	108108-05-20 09:49 G	41206835.81	41206835.91	41206836.02	0.2653	0.0575
Mercury	108117-11-20 15:20 G	41210307.00	41210307.14	41210307.28	0.2679	0.1208
Mercury	108121-05-23 03:06 G	41211586.57	41211586.63	41211586.69	0.2651	0.2136
Mercury	108128-05-16 04:18 G	41214136.62	41214136.68	41214136.73	0.2655	0.2270
Mercury	108130-11-24 00:13 G	41215058.50	41215058.51	41215058.52	0.2680	0.2670
Mercury	108141-05-18 21:20 G	41218887.29	41218887.39	41218887.50	0.2654	0.0688
Mercury	108154-05-21 14:37 G	41223638.01	41223638.11	41223638.21	0.2653	0.0898
Mercury	108163-11-21 22:03 G	41227109.26	41227109.42	41227109.58	0.2679	0.0483
Mercury	108167-05-24 07:54 G	41228388.79	41228388.83	41228388.86	0.2651	0.2467
Mercury	108174-05-17 09:06 G	41230938.80	41230938.88	41230938.95	0.2655	0.1944
Mercury	108187-05-20 02:08 G	41235689.48	41235689.59	41235689.70	0.2654	0.0354
Venus	108197-12-22 11:44 G	41239558.89	41239558.99	41239559.09	0.2696	0.2078
Mercury	108200-05-22 19:25 G	41240440.21	41240440.31	41240440.41	0.2652	0.1228
Venus	108205-12-21 04:47 G	41242478.56	41242478.70	41242478.83	0.2695	0.1362
Mercury	108209-11-23 05:01 G	41243911.55	41243911.71	41243911.87	0.2679	0.0269
Mercury	108220-05-18 13:39 G	41247740.99	41247741.07	41247741.16	0.2655	0.1611

Mercury	108233-05-21 06:56 G	41252491.68	41252491.79	41252491.90	0.2653	0.0028
Mercury	108246-05-24 00:13 G	41257242.42	41257242.51	41257242.59	0.2652	0.1559
Mercury	108255-11-24 11:59 G	41260713.85	41260714.00	41260714.15	0.2680	0.1018
Mercury	108266-05-19 18:27 G	41264543.17	41264543.27	41264543.36	0.2655	0.1281
Mercury	108279-05-22 11:44 G	41269293.88	41269293.99	41269294.10	0.2653	0.0312
Mercury	108288-11-21 10:03 G	41272764.82	41272764.92	41272765.02	0.2678	0.2090
Mercury	108292-05-24 04:47 G	41274044.63	41274044.70	41274044.78	0.2652	0.1885
Mercury	108299-05-18 05:59 G	41276594.72	41276594.75	41276594.78	0.2656	0.2546
Mercury	108301-11-25 18:56 G	41277516.16	41277516.29	41277516.41	0.2680	0.1762
Mercury	108312-05-20 23:15 G	41281345.37	41281345.47	41281345.57	0.2654	0.0952
Mercury	108325-05-23 16:32 G	41286096.08	41286096.19	41286096.29	0.2653	0.0643
Venus	108327-06-21 17:30 G	41286855.07	41286855.23	41286855.40	0.2638	0.0275
Mercury	108334-11-23 16:47 G	41289567.06	41289567.20	41289567.34	0.2678	0.1368
Mercury	108338-05-26 09:35 G	41290846.84	41290846.90	41290846.96	0.2651	0.2208
Mercury	108345-05-19 10:47 G	41293396.89	41293396.95	41293397.01	0.2656	0.2214
Mercury	108347-11-27 01:39 G	41294318.52	41294318.57	41294318.63	0.2680	0.2507
Mercury	108358-05-22 04:03 G	41298147.56	41298147.67	41298147.77	0.2654	0.0616
Mercury	108371-05-24 21:06 G	41302898.28	41302898.38	41302898.48	0.2653	0.0971
Mercury	108380-11-23 23:44 G	41306369.33	41306369.49	41306369.65	0.2679	0.0620
Mercury	108384-05-26 14:23 G	41307649.07	41307649.10	41307649.13	0.2651	0.2533
Mercury	108391-05-20 15:35 G	41310199.07	41310199.15	41310199.22	0.2655	0.1879
Mercury	108404-05-22 08:51 G	41314949.76	41314949.87	41314949.97	0.2654	0.0297
Mercury	108417-05-25 01:54 G	41319700.49	41319700.58	41319700.68	0.2652	0.1296
Mercury	108426-11-25 06:42 G	41323171.61	41323171.78	41323171.94	0.2679	0.0137
Mercury	108437-05-20 20:23 G	41327001.26	41327001.35	41327001.43	0.2655	0.1547
Venus	108440-12-24 14:37 G	41328315.02	41328315.11	41328315.20	0.2695	0.2155
Venus	108448-12-22 07:25 G	41331234.68	41331234.81	41331234.95	0.2694	0.1303
Mercury	108450-05-23 13:25 G	41331751.95	41331752.06	41331752.17	0.2654	0.0091
Mercury	108463-05-26 06:42 G	41336502.69	41336502.78	41336502.86	0.2652	0.1625
Mercury	108472-11-25 13:25 G	41339973.91	41339974.06	41339974.21	0.2679	0.0862

Mercury	108483-05-22 00:56 G	41343803.45	41343803.54	41343803.64	0.2655	0.1216
Mercury	108496-05-23 18:13 G	41348554.15	41348554.26	41348554.37	0.2653	0.0376
Mercury	108505-11-24 11:30 G	41352024.90	41352024.98	41352025.07	0.2678	0.2239
Mercury	108509-05-27 11:15 G	41353304.90	41353304.97	41353305.05	0.2652	0.1952
Mercury	108516-05-20 12:27 G	41355854.98	41355855.02	41355855.06	0.2656	0.2483
Mercury	108518-11-27 20:23 G	41356776.22	41356776.35	41356776.47	0.2680	0.1598
Mercury	108529-05-23 05:44 G	41360605.64	41360605.74	41360605.84	0.2655	0.0881
Mercury	108542-05-25 23:01 G	41365356.35	41365356.46	41365356.56	0.2653	0.0709
Mercury	108551-11-25 18:27 G	41368827.14	41368827.27	41368827.41	0.2678	0.1490
Mercury	108555-05-28 16:03 G	41370107.12	41370107.17	41370107.23	0.2652	0.2278
Mercury	108562-05-21 17:15 G	41372657.16	41372657.22	41372657.28	0.2656	0.2151
Mercury	108564-11-28 03:06 G	41373578.56	41373578.63	41373578.71	0.2680	0.2349
Venus	108570-06-22 17:01 G	41375611.05	41375611.21	41375611.37	0.2638	0.0326
Mercury	108575-05-24 10:32 G	41377407.83	41377407.94	41377408.04	0.2654	0.0551
Mercury	108588-05-26 03:35 G	41382158.55	41382158.65	41382158.75	0.2653	0.1039
Mercury	108597-11-26 01:25 G	41385629.40	41385629.56	41385629.71	0.2678	0.0764
Mercury	108601-05-29 20:51 G	41386909.36	41386909.37	41386909.39	0.2651	0.2608
Mercury	108608-05-22 22:03 G	41389459.34	41389459.42	41389459.50	0.2656	0.1819
Mercury	108621-05-25 15:20 G	41394210.03	41394210.14	41394210.24	0.2654	0.0246
Mercury	108634-05-28 08:23 G	41398960.76	41398960.85	41398960.94	0.2653	0.1366
Mercury	108643-11-28 08:08 G	41402431.68	41402431.84	41402432.00	0.2678	0.0036
Mercury	108654-05-24 02:51 G	41406261.53	41406261.62	41406261.71	0.2655	0.1486
Mercury	108667-05-26 19:54 G	41411012.22	41411012.33	41411012.44	0.2654	0.0130
Mercury	108680-05-28 13:11 G	41415762.97	41415763.05	41415763.13	0.2652	0.1692
Venus	108683-12-27 17:30 G	41417071.14	41417071.23	41417071.32	0.2695	0.2224
Mercury	108689-11-28 14:51 G	41419233.97	41419234.12	41419234.28	0.2679	0.0704
Venus	108691-12-25 10:18 G	41419990.80	41419990.93	41419991.07	0.2694	0.1231
Mercury	108700-05-25 07:25 G	41423063.72	41423063.81	41423063.91	0.2655	0.1150
Mercury	108713-05-28 00:42 G	41427814.42	41427814.53	41427814.64	0.2654	0.0448
Mercury	108722-11-27 13:11 G	41431284.98	41431285.05	41431285.13	0.2677	0.2368

Mercury	108726-05-30 17:59 G	41432565.18	41432565.25	41432565.32	0.2652	0.2021
Mercury	108733-05-23 18:56 G	41435115.25	41435115.29	41435115.33	0.2656	0.2419
Mercury	108735-11-30 21:49 G	41436036.28	41436036.41	41436036.55	0.2679	0.1450
Mercury	108746-05-26 12:13 G	41439865.91	41439866.01	41439866.12	0.2655	0.0812
Mercury	108759-05-29 05:30 G	41444616.63	41444616.73	41444616.83	0.2653	0.0778
Mercury	108768-11-27 19:54 G	41448087.21	41448087.33	41448087.46	0.2678	0.1657
Mercury	108772-05-30 22:47 G	41449367.40	41449367.45	41449367.49	0.2652	0.2355
Mercury	108779-05-24 23:44 G	41451917.43	41451917.49	41451917.56	0.2656	0.2084
Mercury	108781-12-01 04:47 G	41452838.61	41452838.70	41452838.79	0.2680	0.2197
Mercury	108792-05-26 17:01 G	41456668.10	41456668.21	41456668.32	0.2654	0.0480
Mercury	108805-05-29 10:18 G	41461418.83	41461418.93	41461419.03	0.2653	0.1110
Venus	108813-06-24 16:32 G	41464367.02	41464367.19	41464367.35	0.2639	0.0396
Mercury	108814-11-29 02:51 G	41464889.47	41464889.62	41464889.77	0.2678	0.0916
Mercury	108825-05-25 04:32 G	41468719.61	41468719.69	41468719.77	0.2656	0.1747
Mercury	108838-05-27 21:49 G	41473470.30	41473470.41	41473470.52	0.2654	0.0169
Mercury	108851-05-30 15:06 G	41478221.04	41478221.13	41478221.22	0.2653	0.1439
Mercury	108860-11-29 09:49 G	41481691.75	41481691.91	41481692.07	0.2678	0.0189
Mercury	108871-05-26 09:20 G	41485521.79	41485521.89	41485521.98	0.2655	0.1418
Mercury	108884-05-28 02:23 G	41490272.50	41490272.60	41490272.71	0.2654	0.0213
Mercury	108897-05-30 19:39 G	41495023.24	41495023.32	41495023.40	0.2652	0.1764
Mercury	108906-12-01 16:32 G	41498494.04	41498494.19	41498494.35	0.2679	0.0582
Mercury	108917-05-27 13:54 G	41502323.98	41502324.08	41502324.18	0.2655	0.1085
Venus	108926-12-29 20:23 G	41505827.27	41505827.35	41505827.43	0.2694	0.2298
Mercury	108930-05-30 07:11 G	41507074.70	41507074.80	41507074.91	0.2654	0.0520
Venus	108934-12-27 13:11 G	41508746.91	41508747.05	41508747.19	0.2693	0.1160
Mercury	108939-11-29 14:51 G	41510545.07	41510545.12	41510545.18	0.2677	0.2502
Mercury	108943-06-02 00:27 G	41511825.46	41511825.52	41511825.59	0.2652	0.2095
Mercury	108950-05-26 01:25 G	41514375.51	41514375.56	41514375.61	0.2656	0.2357
Mercury	108952-12-01 23:30 G	41515296.34	41515296.48	41515296.62	0.2679	0.1310
Mercury	108963-05-28 18:42 G	41519126.18	41519126.28	41519126.39	0.2655	0.0750

Mercury	108976-05-30 11:59 G	41523876.90	41523877.00	41523877.10	0.2653	0.0845
Mercury	108985-11-29 21:49 G	41527347.29	41527347.41	41527347.53	0.2677	0.1773
Mercury	108989-06-02 05:15 G	41528627.68	41528627.72	41528627.76	0.2652	0.2425
Mercury	108996-05-26 06:13 G	41531177.69	41531177.76	41531177.83	0.2656	0.2017
Mercury	108998-12-03 06:13 G	41532098.66	41532098.76	41532098.87	0.2679	0.2050

110TH MILLENNIUM CE

This is a list of transits visible from Earth in the 110th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	109009-05-29 23:30 G		41535928.37	41535928.48	41535928.59	0.2655	0.0412	
Mercury	109022-06-01 16:47 G		41540679.10	41540679.20	41540679.30	0.2653	0.1177	
Mercury	109031-12-02 04:32 G		41544149.54	41544149.69	41544149.84	0.2678	0.1051	
Mercury	109042-05-28 11:01 G		41547979.88	41547979.96	41547980.04	0.2656	0.1680	
Mercury	109055-05-31 04:18 G		41552730.57	41552730.68	41552730.79	0.2655	0.0075	
Venus	109056-06-26 16:03 G		41553123.01	41553123.17	41553123.33	0.2639	0.0443	
Mercury	109068-06-01 21:35 G		41557481.31	41557481.40	41557481.49	0.2653	0.1514	
Mercury	109077-12-02 11:30 G		41560951.82	41560951.98	41560952.13	0.2678	0.0320	
Mercury	109088-05-28 15:49 G		41564782.06	41564782.16	41564782.25	0.2656	0.1347	
Mercury	109101-06-01 09:06 G		41569532.77	41569532.88	41569532.99	0.2654	0.0260	
Mercury	109114-06-04 02:23 G		41574283.52	41574283.60	41574283.67	0.2653	0.1846	
Mercury	109121-05-28 03:06 G		41576833.62	41576833.63	41576833.64	0.2657	0.2627	
Mercury	109123-12-04 18:13 G		41577754.10	41577754.26	41577754.42	0.2678	0.0416	
Mercury	109134-05-30 20:37 G		41581584.26	41581584.36	41581584.46	0.2655	0.1016	

Mercury	109147-06-02 13:54 G	41586334.97	41586335.08	41586335.18	0.2654	0.0597
Mercury	109156-12-01 16:32 G	41589805.17	41589805.19	41589805.22	0.2677	0.2630
Mercury	109160-06-04 06:56 G	41591085.73	41591085.79	41591085.85	0.2652	0.2172
Mercury	109167-05-29 07:54 G	41593635.78	41593635.83	41593635.88	0.2657	0.2287
Mercury	109169-12-05 01:11 G	41594556.40	41594556.55	41594556.69	0.2679	0.1166
Venus	109169-12-31 23:15 G	41594583.40	41594583.47	41594583.54	0.2694	0.2374
Venus	109177-12-29 16:03 G	41597503.03	41597503.17	41597503.31	0.2693	0.1091
Mercury	109180-05-31 01:11 G	41598386.45	41598386.55	41598386.66	0.2655	0.0681
Mercury	109193-06-02 18:27 G	41603137.17	41603137.27	41603137.37	0.2654	0.0920
Mercury	109202-12-02 23:30 G	41606607.37	41606607.48	41606607.59	0.2677	0.1905
Mercury	109206-06-05 11:44 G	41607887.96	41607887.99	41607888.02	0.2652	0.2498
Mercury	109213-05-29 12:42 G	41610437.96	41610438.03	41610438.10	0.2656	0.1951
Mercury	109215-12-06 07:54 G	41611358.72	41611358.83	41611358.94	0.2679	0.1909
Mercury	109226-06-01 05:58 G	41615188.64	41615188.75	41615188.86	0.2655	0.0346
Mercury	109239-06-03 23:15 G	41619939.37	41619939.47	41619939.56	0.2653	0.1252
Mercury	109248-12-03 06:13 G	41623409.62	41623409.76	41623409.91	0.2677	0.1168
Mercury	109259-05-30 17:30 G	41627240.14	41627240.23	41627240.32	0.2656	0.1613
Mercury	109261-12-06 14:51 G	41628161.10	41628161.12	41628161.13	0.2679	0.2655
Mercury	109272-06-01 10:46 G	41631990.84	41631990.95	41631991.06	0.2655	0.0010
Mercury	109285-06-04 04:03 G	41636741.58	41636741.67	41636741.75	0.2653	0.1583
Mercury	109294-12-04 13:10 G	41640211.89	41640212.05	41640212.20	0.2678	0.0445
Venus	109299-06-28 15:34 G	41641878.99	41641879.15	41641879.31	0.2640	0.0500
Mercury	109305-05-31 22:18 G	41644042.33	41644042.43	41644042.52	0.2656	0.1279
Mercury	109318-06-03 15:34 G	41648793.04	41648793.15	41648793.26	0.2654	0.0332
Mercury	109331-06-06 08:51 G	41653543.79	41653543.87	41653543.94	0.2653	0.1915
Mercury	109338-05-30 09:34 G	41656093.88	41656093.90	41656093.93	0.2657	0.2558
Mercury	109340-12-05 19:54 G	41657014.17	41657014.33	41657014.49	0.2678	0.0292
Mercury	109351-06-02 03:06 G	41660844.52	41660844.63	41660844.73	0.2656	0.0944
Mercury	109364-06-03 20:22 G	41665595.24	41665595.35	41665595.45	0.2654	0.0670
Mercury	109377-06-06 13:25 G	41670346.01	41670346.06	41670346.12	0.2653	0.2248

Mercury	109384-05-30 14:22 G	41672896.05	41672896.10	41672896.16	0.2657	0.2222
Mercury	109386-12-07 02:37 G	41673816.46	41673816.61	41673816.76	0.2678	0.1014
Mercury	109397-06-02 07:54 G	41677646.72	41677646.83	41677646.93	0.2655	0.0611
Mercury	109410-06-06 00:56 G	41682397.44	41682397.54	41682397.64	0.2654	0.1003
Venus	109413-01-03 02:08 G	41683339.52	41683339.59	41683339.65	0.2693	0.2434
Mercury	109419-12-06 01:10 G	41685867.45	41685867.55	41685867.65	0.2677	0.2032
Venus	109420-12-31 18:42 G	41686259.14	41686259.28	41686259.42	0.2692	0.1049
Mercury	109423-06-08 18:13 G	41687148.24	41687148.26	41687148.28	0.2652	0.2578
Mercury	109430-06-01 19:10 G	41689698.23	41689698.30	41689698.38	0.2657	0.1882
Mercury	109432-12-08 09:34 G	41690618.78	41690618.90	41690619.02	0.2679	0.1759
Mercury	109443-06-04 12:27 G	41694448.91	41694449.02	41694449.13	0.2655	0.0274
Mercury	109456-06-06 05:44 G	41699199.65	41699199.74	41699199.84	0.2653	0.1328
Mercury	109465-12-06 07:54 G	41702669.69	41702669.83	41702669.97	0.2677	0.1307
Mercury	109476-06-01 23:58 G	41706500.41	41706500.50	41706500.59	0.2656	0.1545
Mercury	109478-12-09 16:18 G	41707421.13	41707421.18	41707421.24	0.2679	0.2504
Mercury	109489-06-04 17:15 G	41711251.11	41711251.22	41711251.33	0.2655	0.0064
Mercury	109502-06-08 10:32 G	41716001.86	41716001.94	41716002.02	0.2653	0.1657
Mercury	109511-12-08 14:51 G	41719471.96	41719472.12	41719472.27	0.2677	0.0569
Mercury	109522-06-04 04:46 G	41723302.60	41723302.70	41723302.79	0.2656	0.1211
Mercury	109535-06-06 22:03 G	41728053.31	41728053.42	41728053.53	0.2654	0.0399
Venus	109542-07-01 15:20 G	41730634.98	41730635.14	41730635.30	0.2640	0.0547
Mercury	109548-06-08 15:20 G	41732804.07	41732804.14	41732804.21	0.2653	0.1990
Mercury	109555-06-02 16:03 G	41735354.14	41735354.17	41735354.21	0.2657	0.2493
Mercury	109557-12-08 21:34 G	41736274.24	41736274.40	41736274.56	0.2678	0.0157
Mercury	109568-06-04 09:34 G	41740104.79	41740104.90	41740105.00	0.2656	0.0880
Mercury	109581-06-07 02:51 G	41744855.51	41744855.62	41744855.72	0.2654	0.0737
Mercury	109594-06-09 20:08 G	41749606.29	41749606.34	41749606.39	0.2653	0.2322
Mercury	109601-06-02 20:51 G	41752156.31	41752156.37	41752156.43	0.2657	0.2152
Mercury	109603-12-10 04:18 G	41753076.53	41753076.68	41753076.83	0.2678	0.0886
Mercury	109614-06-05 14:08 G	41756906.99	41756907.09	41756907.20	0.2656	0.0541

Mercury	109627-06-08 07:39 G	41761657.72	41761657.82	41761657.92	0.2654	0.1072
Mercury	109636-12-07 02:51 G	41765127.53	41765127.62	41765127.71	0.2676	0.2157
Mercury	109640-06-10 00:42 G	41766408.53	41766408.53	41766408.53	0.2652	0.2651
Mercury	109647-06-04 01:39 G	41768958.49	41768958.57	41768958.65	0.2657	0.1813
Mercury	109649-12-10 11:15 G	41769878.84	41769878.97	41769879.09	0.2678	0.1624
Venus	109656-01-05 04:46 G	41772095.64	41772095.70	41772095.75	0.2693	0.2496
Mercury	109660-06-05 18:56 G	41773709.18	41773709.29	41773709.40	0.2655	0.0211
Venus	109664-01-02 21:20 G	41775015.25	41775015.39	41775015.54	0.2692	0.0990
Mercury	109673-06-08 12:13 G	41778459.92	41778460.01	41778460.11	0.2654	0.1405
Mercury	109682-12-08 09:34 G	41781929.77	41781929.90	41781930.04	0.2677	0.1436
Mercury	109693-06-04 06:27 G	41785760.68	41785760.77	41785760.86	0.2656	0.1473
Mercury	109695-12-11 17:58 G	41786681.18	41786681.25	41786681.32	0.2679	0.2364
Mercury	109706-06-07 23:44 G	41790511.38	41790511.49	41790511.60	0.2655	0.0148
Mercury	109719-06-10 17:01 G	41795262.13	41795262.21	41795262.29	0.2653	0.1732
Mercury	109728-12-09 16:32 G	41798732.03	41798732.19	41798732.34	0.2677	0.0720
Mercury	109739-06-06 11:15 G	41802562.87	41802562.97	41802563.07	0.2656	0.1141
Mercury	109752-06-08 04:32 G	41807313.58	41807313.69	41807313.80	0.2655	0.0474
Mercury	109765-06-10 21:49 G	41812064.34	41812064.41	41812064.48	0.2653	0.2066
Mercury	109772-06-03 22:32 G	41814614.40	41814614.44	41814614.48	0.2657	0.2428
Mercury	109774-12-10 23:15 G	41815534.31	41815534.47	41815534.63	0.2677	0.0024
Mercury	109785-06-06 16:03 G	41819365.06	41819365.17	41819365.27	0.2656	0.0806
Venus	109785-07-02 14:51 G	41819390.96	41819391.12	41819391.28	0.2641	0.0610
Mercury	109798-06-09 09:20 G	41824115.79	41824115.89	41824115.99	0.2654	0.0807
Mercury	109811-06-13 02:37 G	41828866.56	41828866.61	41828866.65	0.2653	0.2399
Mercury	109818-06-06 03:20 G	41831416.57	41831416.64	41831416.70	0.2657	0.2090
Mercury	109820-12-12 05:58 G	41832336.60	41832336.75	41832336.91	0.2678	0.0753
Mercury	109831-06-08 20:51 G	41836167.26	41836167.37	41836167.47	0.2656	0.0475
Mercury	109844-06-10 14:08 G	41840917.99	41840918.09	41840918.18	0.2654	0.1146
Mercury	109853-12-10 04:46 G	41844387.61	41844387.70	41844387.78	0.2676	0.2277
Mercury	109864-06-06 08:08 G	41848218.76	41848218.84	41848218.92	0.2657	0.1742

Mercury	109866-12-13 12:56 G	41849138.90	41849139.04	41849139.17	0.2678	0.1488
Mercury	109877-06-09 01:25 G	41852969.46	41852969.56	41852969.67	0.2655	0.0158
Mercury	109890-06-11 18:42 G	41857720.19	41857720.28	41857720.37	0.2654	0.1474
Venus	109899-01-07 07:25 G	41860851.76	41860851.81	41860851.85	0.2692	0.2538
Mercury	109899-12-11 11:30 G	41861189.85	41861189.98	41861190.11	0.2676	0.1557
Venus	109907-01-05 23:44 G	41863771.35	41863771.49	41863771.64	0.2691	0.0961
Mercury	109910-06-08 12:56 G	41865020.95	41865021.04	41865021.13	0.2657	0.1402
Mercury	109912-12-14 19:39 G	41865941.23	41865941.32	41865941.40	0.2678	0.2216
Mercury	109923-06-11 06:13 G	41869771.65	41869771.76	41869771.87	0.2655	0.0215
Mercury	109936-06-12 23:30 G	41874522.40	41874522.48	41874522.56	0.2654	0.1806
Mercury	109945-12-12 18:13 G	41877992.11	41877992.26	41877992.41	0.2677	0.0823
Mercury	109956-06-08 17:44 G	41881823.14	41881823.24	41881823.34	0.2656	0.1067
Mercury	109969-06-11 11:01 G	41886573.85	41886573.96	41886574.07	0.2655	0.0547
Mercury	109982-06-14 04:18 G	41891324.62	41891324.68	41891324.74	0.2653	0.2140
Mercury	109989-06-07 05:01 G	41893874.66	41893874.71	41893874.76	0.2657	0.2358
Mercury	109991-12-14 00:56 G	41894794.38	41894794.54	41894794.70	0.2677	0.0116

111TH MILLENNIUM CE

This is a list of transits visible from Earth in the 111th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	110002-06-09 22:32 G		41898625.33	41898625.44	41898625.54	0.2656	0.0735	
Mercury	110015-06-12 15:49 G		41903376.05	41903376.16	41903376.26	0.2655	0.0885	
Mercury	110028-06-14 09:06 G		41908126.84	41908126.88	41908126.91	0.2653	0.2477	

Venus	110028-07-04 14:37 G	41908146.96	41908147.11	41908147.27	0.2641	0.0664
Mercury	110035-06-08 09:49 G	41910676.84	41910676.91	41910676.98	0.2657	0.2015
Mercury	110037-12-14 07:39 G	41911596.66	41911596.82	41911596.98	0.2677	0.0608
Mercury	110048-06-10 03:06 G	41915427.53	41915427.63	41915427.74	0.2656	0.0402
Mercury	110061-06-12 20:37 G	41920178.26	41920178.36	41920178.45	0.2654	0.1220
Mercury	110070-12-12 06:27 G	41923647.70	41923647.77	41923647.84	0.2676	0.2398
Mercury	110081-06-08 14:37 G	41927479.03	41927479.11	41927479.19	0.2657	0.1675
Mercury	110083-12-15 14:22 G	41928398.96	41928399.10	41928399.24	0.2678	0.1339
Mercury	110094-06-11 07:54 G	41932229.72	41932229.83	41932229.94	0.2656	0.0077
Mercury	110107-06-15 01:10 G	41936980.47	41936980.55	41936980.64	0.2654	0.1555
Mercury	110116-12-13 13:10 G	41940449.93	41940450.05	41940450.18	0.2676	0.1667
Mercury	110127-06-10 19:25 G	41944281.21	41944281.31	41944281.40	0.2657	0.1337
Mercury	110129-12-16 21:20 G	41945201.29	41945201.39	41945201.49	0.2678	0.2088
Mercury	110140-06-12 12:42 G	41949031.92	41949032.03	41949032.14	0.2655	0.0283
Venus	110142-01-09 09:49 G	41949607.87	41949607.91	41949607.95	0.2692	0.2591
Venus	110150-01-07 02:22 G	41952527.46	41952527.60	41952527.75	0.2691	0.0906
Mercury	110153-06-15 05:58 G	41953782.68	41953782.75	41953782.83	0.2654	0.1886
Mercury	110160-06-08 06:42 G	41956332.77	41956332.78	41956332.79	0.2658	0.2631
Mercury	110162-12-14 19:54 G	41957252.18	41957252.33	41957252.48	0.2676	0.0954
Mercury	110173-06-11 00:13 G	41961083.40	41961083.51	41961083.61	0.2657	0.1006
Mercury	110186-06-13 17:30 G	41965834.12	41965834.23	41965834.33	0.2655	0.0618
Mercury	110199-06-16 10:46 G	41970584.89	41970584.95	41970585.01	0.2654	0.2221
Mercury	110206-06-10 11:30 G	41973134.93	41973134.98	41973135.03	0.2658	0.2287
Mercury	110208-12-16 02:37 G	41974054.45	41974054.61	41974054.77	0.2677	0.0240
Mercury	110219-06-13 04:46 G	41977885.60	41977885.70	41977885.81	0.2656	0.0661
Mercury	110232-06-14 22:18 G	41982636.33	41982636.43	41982636.53	0.2655	0.0957
Mercury	110245-06-17 15:34 G	41987387.12	41987387.15	41987387.18	0.2653	0.2551
Mercury	110252-06-10 16:18 G	41989937.10	41989937.18	41989937.25	0.2658	0.1944
Mercury	110254-12-17 09:20 G	41990856.74	41990856.89	41990857.05	0.2677	0.0488
Mercury	110265-06-13 09:34 G	41994687.80	41994687.90	41994688.01	0.2656	0.0325

Venus	110271-07-07 14:22 G	41996902.95	41996903.10	41996903.26	0.2642	0.0714
Mercury	110278-06-16 03:06 G	41999438.53	41999438.63	41999438.72	0.2654	0.1301
Mercury	110287-12-15 08:22 G	42002907.79	42002907.85	42002907.90	0.2675	0.2503
Mercury	110298-06-11 21:06 G	42006739.29	42006739.38	42006739.46	0.2657	0.1604
Mercury	110300-12-18 16:18 G	42007659.04	42007659.18	42007659.32	0.2677	0.1222
Mercury	110311-06-15 14:22 G	42011489.99	42011490.10	42011490.21	0.2656	0.0068
Mercury	110324-06-17 07:54 G	42016240.74	42016240.83	42016240.91	0.2654	0.1634
Mercury	110333-12-16 15:06 G	42019710.01	42019710.13	42019710.24	0.2676	0.1796
Mercury	110344-06-13 01:39 G	42023541.48	42023541.57	42023541.67	0.2657	0.1271
Mercury	110346-12-19 23:01 G	42024461.35	42024461.46	42024461.57	0.2678	0.1945
Mercury	110357-06-15 19:10 G	42028292.19	42028292.30	42028292.41	0.2655	0.0362
Mercury	110370-06-18 12:27 G	42033042.95	42033043.02	42033043.10	0.2654	0.1967
Mercury	110377-06-11 13:10 G	42035593.02	42035593.05	42035593.07	0.2658	0.2561
Mercury	110379-12-17 21:49 G	42036512.26	42036512.41	42036512.55	0.2676	0.1077
Venus	110385-01-11 12:13 G	42038363.98	42038364.01	42038364.04	0.2691	0.2619
Mercury	110390-06-14 06:27 G	42040343.67	42040343.77	42040343.88	0.2657	0.0926
Mercury	110392-12-20 05:44 G	42041263.73	42041263.74	42041263.75	0.2678	0.2672
Venus	110393-01-09 04:46 G	42041283.55	42041283.70	42041283.85	0.2690	0.0891
Mercury	110403-06-16 23:58 G	42045094.40	42045094.50	42045094.61	0.2655	0.0698
Mercury	110416-06-18 17:15 G	42049845.17	42049845.22	42049845.27	0.2654	0.2298
Mercury	110423-06-12 17:58 G	42052395.19	42052395.25	42052395.30	0.2658	0.2222
Mercury	110425-12-18 04:32 G	42053314.53	42053314.69	42053314.85	0.2676	0.0363
Mercury	110436-06-14 11:15 G	42057145.87	42057145.97	42057146.08	0.2657	0.0589
Mercury	110449-06-17 04:46 G	42061896.60	42061896.70	42061896.80	0.2655	0.1039
Mercury	110462-06-19 22:03 G	42066647.41	42066647.42	42066647.43	0.2653	0.2633
Mercury	110469-06-12 22:46 G	42069197.37	42069197.45	42069197.52	0.2658	0.1878
Mercury	110471-12-19 11:15 G	42070116.81	42070116.97	42070117.13	0.2677	0.0377
Mercury	110482-06-15 16:03 G	42073948.07	42073948.17	42073948.28	0.2656	0.0256
Mercury	110495-06-18 09:34 G	42078698.80	42078698.90	42078698.99	0.2654	0.1373
Mercury	110504-12-17 10:18 G	42082167.90	42082167.93	42082167.96	0.2675	0.2610

Venus	110514-07-09 14:22 G	42085658.94	42085659.10	42085659.25	0.2643	0.0757
Mercury	110515-06-15 03:34 G	42085999.56	42085999.65	42085999.73	0.2657	0.1533
Mercury	110517-12-20 17:58 G	42086919.11	42086919.25	42086919.40	0.2677	0.1095
Mercury	110528-06-16 20:51 G	42090750.26	42090750.37	42090750.48	0.2656	0.0122
Mercury	110541-06-19 14:08 G	42095501.01	42095501.09	42095501.18	0.2654	0.1708
Mercury	110550-12-18 17:01 G	42098970.10	42098970.21	42098970.32	0.2675	0.1895
Mercury	110561-06-15 08:22 G	42102801.75	42102801.85	42102801.94	0.2657	0.1187
Mercury	110563-12-22 00:42 G	42103721.42	42103721.53	42103721.65	0.2677	0.1823
Mercury	110574-06-18 01:39 G	42107552.46	42107552.57	42107552.68	0.2656	0.0439
Mercury	110587-06-20 18:56 G	42112303.22	42112303.29	42112303.36	0.2654	0.2042
Mercury	110594-06-13 19:39 G	42114853.28	42114853.32	42114853.35	0.2658	0.2490
Mercury	110596-12-18 23:30 G	42115772.34	42115772.48	42115772.63	0.2676	0.1191
Mercury	110607-06-17 13:10 G	42119603.94	42119604.05	42119604.15	0.2657	0.0850
Mercury	110609-12-23 07:25 G	42120523.76	42120523.81	42120523.86	0.2678	0.2541
Mercury	110620-06-19 06:27 G	42124354.67	42124354.77	42124354.87	0.2655	0.0780
Venus	110628-01-14 14:51 G	42127120.11	42127120.12	42127120.13	0.2691	0.2682
Mercury	110633-06-21 23:44 G	42129105.45	42129105.49	42129105.54	0.2654	0.2382
Venus	110636-01-12 07:25 G	42130039.66	42130039.81	42130039.95	0.2689	0.0837
Mercury	110640-06-15 00:13 G	42131655.45	42131655.51	42131655.58	0.2658	0.2148
Mercury	110642-12-21 06:13 G	42132574.61	42132574.76	42132574.92	0.2676	0.0478
Mercury	110653-06-17 17:44 G	42136406.14	42136406.24	42136406.35	0.2657	0.0514
Mercury	110666-06-20 11:15 G	42141156.87	42141156.97	42141157.07	0.2655	0.1118
Mercury	110686-06-16 05:01 G	42148457.64	42148457.71	42148457.79	0.2658	0.1804
Mercury	110688-12-21 12:56 G	42149376.88	42149377.04	42149377.20	0.2677	0.0236
Mercury	110699-06-18 22:32 G	42153208.33	42153208.44	42153208.55	0.2656	0.0176
Mercury	110712-06-21 16:03 G	42157959.08	42157959.17	42157959.26	0.2655	0.1454
Mercury	110732-06-17 10:03 G	42165259.82	42165259.92	42165260.01	0.2658	0.1456
Mercury	110734-12-23 19:54 G	42166179.18	42166179.33	42166179.47	0.2677	0.0975
Mercury	110745-06-20 03:20 G	42170010.53	42170010.64	42170010.75	0.2656	0.0181
Venus	110757-07-11 14:22 G	42174414.94	42174415.10	42174415.25	0.2643	0.0794

Mercury	110758-06-22 20:37 G	42174761.28	42174761.36	42174761.44	0.2654	0.1789
Mercury	110767-12-21 18:56 G	42178230.18	42178230.29	42178230.39	0.2675	0.2002
Mercury	110778-06-18 14:37 G	42182062.02	42182062.11	42182062.21	0.2657	0.1116
Mercury	110780-12-24 02:37 G	42182981.48	42182981.61	42182981.73	0.2677	0.1701
Mercury	110791-06-21 08:08 G	42186812.73	42186812.84	42186812.95	0.2656	0.0515
Mercury	110804-06-23 01:25 G	42191563.50	42191563.56	42191563.63	0.2654	0.2129
Mercury	110811-06-17 01:54 G	42194113.54	42194113.58	42194113.63	0.2659	0.2416
Mercury	110813-12-22 01:39 G	42195032.43	42195032.57	42195032.70	0.2675	0.1287
Mercury	110824-06-18 19:25 G	42198864.21	42198864.31	42198864.42	0.2657	0.0771
Mercury	110826-12-25 09:20 G	42199783.82	42199783.89	42199783.95	0.2677	0.2429
Mercury	110837-06-21 12:56 G	42203614.93	42203615.04	42203615.14	0.2656	0.0855
Mercury	110850-06-24 06:13 G	42208365.73	42208365.76	42208365.80	0.2654	0.2463
Mercury	110857-06-17 06:42 G	42210915.72	42210915.78	42210915.85	0.2658	0.2069
Mercury	110859-12-23 08:08 G	42211834.69	42211834.84	42211835.00	0.2676	0.0581
Mercury	110870-06-20 00:13 G	42215666.40	42215666.51	42215666.62	0.2657	0.0429
Venus	110879-01-13 09:34 G	42218795.75	42218795.90	42218796.05	0.2689	0.0817
Mercury	110883-06-22 17:44 G	42220417.14	42220417.24	42220417.33	0.2655	0.1198
Mercury	110903-06-19 11:30 G	42227717.90	42227717.98	42227718.07	0.2658	0.1724
Mercury	110905-12-24 14:51 G	42228636.96	42228637.12	42228637.28	0.2676	0.0139
Mercury	110916-06-21 05:01 G	42232468.60	42232468.71	42232468.82	0.2657	0.0086
Mercury	110929-06-23 22:32 G	42237219.35	42237219.44	42237219.53	0.2655	0.1539
Mercury	110949-06-19 16:18 G	42244520.09	42244520.18	42244520.28	0.2658	0.1381
Mercury	110951-12-25 21:34 G	42245439.25	42245439.40	42245439.55	0.2676	0.0844
Mercury	110962-06-22 09:49 G	42249270.80	42249270.91	42249271.02	0.2656	0.0261
Mercury	110975-06-25 03:20 G	42254021.56	42254021.64	42254021.71	0.2655	0.1878
Mercury	110984-12-22 20:51 G	42257490.27	42257490.37	42257490.46	0.2675	0.2105
Mercury	110995-06-20 21:06 G	42261322.28	42261322.38	42261322.48	0.2658	0.1035
Mercury	110997-12-26 04:18 G	42262241.56	42262241.68	42262241.81	0.2677	0.1583
Venus	111000-07-13 14:22 G	42263170.95	42263171.10	42263171.25	0.2644	0.0833

112TH MILLENNIUM CE

This is a list of transits visible from Earth in the 112th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	111008-06-23 14:37	G	42266073.00	42266073.11	42266073.22	0.2656	0.0600	
Mercury	111021-06-26 08:08	G	42270823.78	42270823.84	42270823.89	0.2654	0.2212	
Mercury	111028-06-19 08:22	G	42273373.80	42273373.85	42273373.90	0.2659	0.2341	
Mercury	111030-12-25 03:34	G	42274292.51	42274292.65	42274292.78	0.2675	0.1391	
Mercury	111041-06-22 01:54	G	42278124.47	42278124.58	42278124.69	0.2657	0.0692	
Mercury	111043-12-28 11:01	G	42279043.89	42279043.96	42279044.04	0.2677	0.2306	
Mercury	111054-06-24 19:25	G	42282875.21	42282875.31	42282875.41	0.2656	0.0938	
Mercury	111067-06-27 12:42	G	42287626.01	42287626.03	42287626.06	0.2654	0.2547	
Mercury	111074-06-20 13:10	G	42290175.98	42290176.05	42290176.12	0.2659	0.1995	
Mercury	111076-12-25 10:18	G	42291094.77	42291094.93	42291095.08	0.2675	0.0675	
Mercury	111087-06-23 06:42	G	42294926.67	42294926.78	42294926.89	0.2657	0.0347	
Mercury	111100-06-26 00:13	G	42299677.41	42299677.51	42299677.60	0.2655	0.1277	
Mercury	111120-06-21 17:58	G	42306978.16	42306978.25	42306978.33	0.2658	0.1647	
Venus	111122-01-16 11:58	G	42307551.86	42307552.00	42307552.15	0.2688	0.0777	
Mercury	111122-12-27 16:46	G	42307897.04	42307897.20	42307897.36	0.2676	0.0046	
Mercury	111133-06-24 11:30	G	42311728.87	42311728.98	42311729.09	0.2657	0.0026	
Mercury	111146-06-27 05:01	G	42316479.62	42316479.71	42316479.79	0.2655	0.1620	
Mercury	111166-06-22 22:46	G	42323780.36	42323780.45	42323780.55	0.2658	0.1300	
Mercury	111168-12-27 23:30	G	42324699.33	42324699.48	42324699.63	0.2676	0.0747	
Mercury	111179-06-25 16:18	G	42328531.07	42328531.18	42328531.29	0.2657	0.0343	

Mercury	111192-06-27 09:49 G	42333281.83	42333281.91	42333281.98	0.2655	0.1961
Mercury	111199-06-21 10:03 G	42335831.90	42335831.92	42335831.93	0.2659	0.2613
Mercury	111201-12-25 22:46 G	42336750.36	42336750.45	42336750.54	0.2674	0.2196
Mercury	111212-06-23 03:34 G	42340582.55	42340582.65	42340582.75	0.2658	0.0955
Mercury	111214-12-29 06:13 G	42341501.63	42341501.76	42341501.89	0.2677	0.1460
Mercury	111225-06-25 21:06 G	42345333.28	42345333.38	42345333.49	0.2656	0.0685
Mercury	111238-06-28 14:22 G	42350084.05	42350084.10	42350084.16	0.2655	0.2298
Venus	111243-07-15 14:22 G	42351926.95	42351927.10	42351927.26	0.2644	0.0865
Mercury	111245-06-21 14:51 G	42352634.06	42352634.12	42352634.17	0.2659	0.2264
Mercury	111247-12-27 05:30 G	42353552.60	42353552.73	42353552.86	0.2675	0.1502
Mercury	111258-06-24 08:22 G	42357384.75	42357384.85	42357384.96	0.2657	0.0608
Mercury	111260-12-29 12:56 G	42358303.95	42358304.04	42358304.13	0.2677	0.2184
Mercury	111271-06-27 01:54 G	42362135.48	42362135.58	42362135.68	0.2656	0.1024
Mercury	111284-06-28 19:10 G	42366886.29	42366886.30	42366886.31	0.2654	0.2631
Mercury	111291-06-22 19:39 G	42369436.24	42369436.32	42369436.39	0.2659	0.1916
Mercury	111293-12-27 11:58 G	42370354.85	42370355.00	42370355.15	0.2675	0.0795
Mercury	111304-06-25 13:10 G	42374186.94	42374187.05	42374187.16	0.2657	0.0265
Mercury	111317-06-28 06:42 G	42378937.68	42378937.78	42378937.87	0.2656	0.1362
Mercury	111337-06-24 00:27 G	42386238.43	42386238.52	42386238.61	0.2658	0.1570
Mercury	111339-12-29 18:42 G	42387157.13	42387157.28	42387157.44	0.2675	0.0093
Mercury	111350-06-26 17:58 G	42390989.14	42390989.25	42390989.36	0.2657	0.0079
Mercury	111363-06-29 11:15 G	42395739.89	42395739.97	42395740.06	0.2655	0.1705
Venus	111365-01-17 14:08 G	42396307.94	42396308.09	42396308.24	0.2688	0.0764
Mercury	111383-06-25 05:15 G	42403040.62	42403040.72	42403040.82	0.2658	0.1225
Mercury	111385-12-30 01:25 G	42403959.41	42403959.56	42403959.71	0.2676	0.0634
Mercury	111396-06-26 22:46 G	42407791.34	42407791.45	42407791.56	0.2657	0.0418
Mercury	111409-06-30 16:03 G	42412542.11	42412542.17	42412542.24	0.2655	0.2043
Mercury	111416-06-23 16:32 G	42415092.16	42415092.19	42415092.22	0.2660	0.2539
Mercury	111418-12-29 00:42 G	42416010.45	42416010.53	42416010.61	0.2674	0.2292
Mercury	111429-06-26 10:03 G	42419842.82	42419842.92	42419843.02	0.2658	0.0874

Mercury	111432-01-01 08:08 G	42420761.70	42420761.84	42420761.97	0.2676	0.1346
Mercury	111442-06-29 03:34 G	42424593.54	42424593.65	42424593.75	0.2656	0.0765
Mercury	111455-07-01 20:51 G	42429344.33	42429344.37	42429344.42	0.2655	0.2378
Mercury	111462-06-24 21:20 G	42431894.33	42431894.39	42431894.45	0.2659	0.2186
Mercury	111464-12-29 07:25 G	42432812.68	42432812.81	42432812.93	0.2674	0.1592
Mercury	111475-06-27 14:51 G	42436645.01	42436645.12	42436645.23	0.2658	0.0529
Mercury	111478-01-01 14:51 G	42437564.02	42437564.12	42437564.21	0.2677	0.2062
Venus	111486-07-17 14:37 G	42440682.96	42440683.11	42440683.27	0.2645	0.0890
Mercury	111488-06-29 08:22 G	42441395.75	42441395.85	42441395.95	0.2656	0.1109
Mercury	111508-06-26 02:08 G	42448696.51	42448696.59	42448696.67	0.2659	0.1839
Mercury	111510-12-31 14:08 G	42449614.94	42449615.09	42449615.24	0.2675	0.0885
Mercury	111521-06-28 19:39 G	42453447.21	42453447.32	42453447.43	0.2657	0.0189
Mercury	111534-07-01 13:10 G	42458197.95	42458198.05	42458198.14	0.2656	0.1450
Mercury	111554-06-27 06:56 G	42465498.70	42465498.79	42465498.88	0.2659	0.1493
Mercury	111556-12-31 20:37 G	42466417.20	42466417.36	42466417.52	0.2675	0.0188
Mercury	111567-06-30 00:27 G	42470249.41	42470249.52	42470249.63	0.2657	0.0176
Mercury	111580-07-01 17:58 G	42475000.17	42475000.25	42475000.33	0.2656	0.1787
Mercury	111600-06-27 11:44 G	42482300.89	42482300.99	42482301.08	0.2658	0.1148
Mercury	111603-01-02 03:20 G	42483219.48	42483219.64	42483219.79	0.2675	0.0521
Venus	111608-01-20 16:18 G	42485064.03	42485064.18	42485064.33	0.2687	0.0746
Mercury	111613-06-30 05:15 G	42487051.61	42487051.72	42487051.82	0.2657	0.0511
Mercury	111626-07-02 22:32 G	42491802.38	42491802.44	42491802.51	0.2655	0.2126
Mercury	111633-06-25 22:46 G	42494352.41	42494352.45	42494352.49	0.2660	0.2465
Mercury	111635-12-31 02:51 G	42495270.55	42495270.62	42495270.69	0.2674	0.2375
Mercury	111646-06-28 16:18 G	42499103.08	42499103.18	42499103.29	0.2658	0.0805
Mercury	111649-01-02 10:03 G	42500021.78	42500021.92	42500022.06	0.2676	0.1228
Mercury	111659-07-01 10:03 G	42503853.81	42503853.92	42503854.02	0.2657	0.0849
Mercury	111672-07-03 03:20 G	42508604.61	42508604.64	42508604.68	0.2655	0.2469
Mercury	111679-06-27 03:34 G	42511154.59	42511154.65	42511154.72	0.2660	0.2116
Mercury	111681-12-31 09:20 G	42512072.77	42512072.89	42512073.02	0.2674	0.1679

Mercury	111692-06-28 21:06 G	42515905.28	42515905.38	42515905.49	0.2658	0.0466
Mercury	111695-01-03 16:46 G	42516824.09	42516824.20	42516824.30	0.2676	0.1957
Mercury	111705-07-02 14:51 G	42520656.02	42520656.12	42520656.21	0.2656	0.1192
Mercury	111725-06-28 08:22 G	42527956.77	42527956.85	42527956.93	0.2659	0.1761
Mercury	111728-01-02 16:03 G	42528875.02	42528875.17	42528875.32	0.2674	0.0988
Venus	111729-07-19 14:37 G	42529438.96	42529439.11	42529439.27	0.2646	0.0949
Mercury	111738-07-01 01:54 G	42532707.47	42532707.58	42532707.69	0.2658	0.0150
Mercury	111741-01-04 23:30 G	42533626.48	42533626.48	42533626.48	0.2677	0.2676
Mercury	111751-07-03 19:39 G	42537458.23	42537458.32	42537458.41	0.2656	0.1531
Mercury	111771-06-29 13:10 G	42544758.96	42544759.05	42544759.15	0.2659	0.1412
Mercury	111774-01-02 22:46 G	42545677.29	42545677.45	42545677.60	0.2675	0.0283
Mercury	111784-07-01 06:56 G	42549509.68	42549509.79	42549509.89	0.2657	0.0268
Mercury	111797-07-04 00:13 G	42554260.44	42554260.51	42554260.59	0.2656	0.1872
Mercury	111817-06-30 17:58 G	42561561.15	42561561.25	42561561.35	0.2659	0.1065
Mercury	111820-01-05 05:15 G	42562479.57	42562479.72	42562479.88	0.2675	0.0430
Mercury	111830-07-03 11:44 G	42566311.88	42566311.99	42566312.09	0.2657	0.0595
Mercury	111843-07-06 05:01 G	42571062.66	42571062.71	42571062.77	0.2656	0.2214
Mercury	111850-06-29 05:15 G	42573612.67	42573612.72	42573612.76	0.2660	0.2391
Venus	111851-01-22 18:27 G	42573820.12	42573820.27	42573820.42	0.2687	0.0747
Mercury	111853-01-02 05:01 G	42574530.65	42574530.71	42574530.76	0.2673	0.2466
Mercury	111863-07-01 22:46 G	42578363.35	42578363.45	42578363.56	0.2658	0.0722
Mercury	111866-01-05 11:58 G	42579281.86	42579282.00	42579282.14	0.2675	0.1132
Mercury	111876-07-03 16:18 G	42583114.08	42583114.18	42583114.29	0.2657	0.0935
Mercury	111889-07-06 09:49 G	42587864.89	42587864.91	42587864.94	0.2655	0.2553
Mercury	111896-06-29 10:03 G	42590414.85	42590414.92	42590414.99	0.2660	0.2039
Mercury	111899-01-03 11:30 G	42591332.86	42591332.98	42591333.10	0.2674	0.1777
Mercury	111909-07-03 03:34 G	42595165.54	42595165.65	42595165.76	0.2658	0.0377
Mercury	111912-01-07 18:27 G	42596084.16	42596084.27	42596084.39	0.2676	0.1827
Mercury	111922-07-05 21:06 G	42599916.29	42599916.38	42599916.48	0.2657	0.1274
Mercury	111942-07-01 14:51 G	42607217.03	42607217.12	42607217.20	0.2659	0.1688

Mercury	111945-01-04 17:58 G	42608135.11	42608135.25	42608135.40	0.2674	0.1084
Mercury	111955-07-04 08:22 G	42611967.74	42611967.85	42611967.96	0.2658	0.0082
Mercury	111958-01-08 01:10 G	42612886.51	42612886.55	42612886.60	0.2676	0.2544
Mercury	111968-07-06 01:54 G	42616718.50	42616718.58	42616718.67	0.2656	0.1618
Venus	111972-07-21 15:06 G	42618194.98	42618195.13	42618195.28	0.2646	0.0953
Mercury	111988-07-01 19:39 G	42624019.22	42624019.32	42624019.41	0.2659	0.1336
Mercury	111991-01-06 00:42 G	42624937.38	42624937.53	42624937.69	0.2675	0.0381

113TH MILLENNIUM CE

This is a list of transits visible from Earth in the 113th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	112001-07-04 13:10 G		42628769.94	42628770.05	42628770.16	0.2658	0.0334	
Mercury	112014-07-07 06:42 G		42633520.71	42633520.78	42633520.85	0.2656	0.1958	
Mercury	112034-07-03 00:27 G		42640821.42	42640821.52	42640821.62	0.2659	0.0985	
Mercury	112037-01-06 07:25 G		42641739.65	42641739.81	42641739.96	0.2675	0.0330	
Mercury	112047-07-05 17:58 G		42645572.15	42645572.25	42645572.36	0.2657	0.0671	
Mercury	112060-07-07 11:30 G		42650322.93	42650322.98	42650323.03	0.2655	0.2294	
Mercury	112067-07-01 11:30 G		42652872.93	42652872.98	42652873.04	0.2660	0.2306	
Mercury	112070-01-04 06:56 G		42653790.75	42653790.79	42653790.84	0.2673	0.2544	
Mercury	112080-07-03 05:15 G		42657623.61	42657623.72	42657623.83	0.2659	0.0634	
Mercury	112083-01-07 13:54 G		42658541.94	42658542.08	42658542.23	0.2675	0.1025	
Mercury	112093-07-05 22:46 G		42662374.35	42662374.45	42662374.55	0.2657	0.1011	
Venus	112094-01-23 20:22 G		42662576.20	42662576.35	42662576.50	0.2686	0.0752	

Mercury	112106-07-09 16:18 G	42667125.17	42667125.18	42667125.19	0.2655	0.2634
Mercury	112113-07-02 16:18 G	42669675.11	42669675.18	42669675.26	0.2660	0.1959
Mercury	112116-01-06 13:39 G	42670592.96	42670593.07	42670593.18	0.2673	0.1859
Mercury	112126-07-05 10:03 G	42674425.81	42674425.92	42674426.03	0.2658	0.0284
Mercury	112129-01-08 20:37 G	42675344.24	42675344.36	42675344.48	0.2675	0.1733
Mercury	112139-07-08 03:34 G	42679176.56	42679176.65	42679176.74	0.2657	0.1358
Mercury	112159-07-03 21:06 G	42686477.30	42686477.38	42686477.47	0.2660	0.1609
Mercury	112162-01-06 20:08 G	42687395.20	42687395.34	42687395.48	0.2674	0.1173
Mercury	112172-07-05 14:51 G	42691228.01	42691228.12	42691228.23	0.2658	0.0060
Mercury	112175-01-10 03:06 G	42692146.57	42692146.63	42692146.70	0.2676	0.2432
Mercury	112185-07-08 08:22 G	42695978.77	42695978.85	42695978.93	0.2656	0.1703
Mercury	112205-07-05 01:54 G	42703279.49	42703279.58	42703279.68	0.2659	0.1261
Mercury	112208-01-09 02:37 G	42704197.46	42704197.61	42704197.77	0.2674	0.0485
Venus	112215-07-24 15:20 G	42706950.99	42706951.14	42706951.29	0.2647	0.0991
Mercury	112218-07-07 19:39 G	42708030.21	42708030.32	42708030.43	0.2658	0.0406
Mercury	112231-07-10 13:10 G	42712780.98	42712781.05	42712781.12	0.2656	0.2046
Mercury	112238-07-03 13:10 G	42715331.03	42715331.05	42715331.07	0.2661	0.2584
Mercury	112251-07-06 06:56 G	42720081.68	42720081.79	42720081.89	0.2659	0.0909
Mercury	112254-01-09 09:20 G	42720999.73	42720999.89	42721000.05	0.2675	0.0217
Mercury	112264-07-08 00:27 G	42724832.41	42724832.52	42724832.62	0.2657	0.0753
Mercury	112277-07-10 17:58 G	42729583.21	42729583.25	42729583.30	0.2656	0.2384
Mercury	112284-07-03 17:58 G	42732133.19	42732133.25	42732133.31	0.2661	0.2230
Mercury	112287-01-07 09:06 G	42733050.86	42733050.88	42733050.91	0.2673	0.2623
Mercury	112297-07-06 11:44 G	42736883.88	42736883.99	42736884.09	0.2659	0.0560
Mercury	112300-01-10 16:03 G	42737802.02	42737802.17	42737802.32	0.2675	0.0934
Mercury	112310-07-10 05:15 G	42741634.62	42741634.72	42741634.82	0.2657	0.1102
Mercury	112330-07-05 22:46 G	42748935.37	42748935.45	42748935.53	0.2660	0.1874
Mercury	112333-01-08 15:49 G	42749853.05	42749853.16	42749853.26	0.2673	0.1934
Venus	112337-01-26 22:18 G	42751332.28	42751332.43	42751332.58	0.2685	0.0746
Mercury	112343-07-08 16:32 G	42753686.08	42753686.19	42753686.30	0.2658	0.0231

Mercury	112346-01-11 22:32	G	42754604.32	42754604.44	42754604.57	0.2675	0.1635
Mercury	112356-07-10 10:03	G	42758436.83	42758436.92	42758437.01	0.2657	0.1441
Mercury	112376-07-06 03:34	G	42765737.56	42765737.65	42765737.74	0.2660	0.1523
Mercury	112379-01-09 22:18	G	42766655.30	42766655.43	42766655.57	0.2673	0.1244
Mercury	112389-07-08 21:20	G	42770488.28	42770488.39	42770488.50	0.2658	0.0179
Mercury	112392-01-13 05:15	G	42771406.65	42771406.72	42771406.79	0.2675	0.2340
Mercury	112402-07-11 14:51	G	42775239.04	42775239.12	42775239.20	0.2657	0.1787
Mercury	112422-07-07 08:22	G	42782539.75	42782539.85	42782539.95	0.2659	0.1170
Mercury	112425-01-10 05:01	G	42783457.55	42783457.71	42783457.86	0.2674	0.0563
Mercury	112435-07-10 02:08	G	42787290.48	42787290.59	42787290.69	0.2658	0.0499
Mercury	112448-07-11 19:39	G	42792041.26	42792041.32	42792041.38	0.2656	0.2133
Mercury	112455-07-05 19:25	G	42794591.28	42794591.31	42794591.35	0.2661	0.2507
Venus	112458-07-25 16:03	G	42795707.02	42795707.17	42795707.31	0.2648	0.1007
Mercury	112468-07-07 13:10	G	42799341.95	42799342.05	42799342.16	0.2659	0.0820
Mercury	112471-01-11 11:30	G	42800259.82	42800259.98	42800260.13	0.2674	0.0133
Mercury	112481-07-10 06:56	G	42804092.68	42804092.79	42804092.89	0.2658	0.0845
Mercury	112494-07-13 00:27	G	42808843.48	42808843.52	42808843.56	0.2656	0.2478
Mercury	112501-07-07 00:13	G	42811393.45	42811393.51	42811393.58	0.2661	0.2151
Mercury	112514-07-09 17:58	G	42816144.14	42816144.25	42816144.36	0.2659	0.0470
Mercury	112517-01-12 17:58	G	42817062.10	42817062.25	42817062.40	0.2675	0.0822
Mercury	112527-07-12 11:44	G	42820894.89	42820894.99	42820895.09	0.2657	0.1189
Mercury	112547-07-08 05:01	G	42828195.63	42828195.71	42828195.79	0.2660	0.1798
Mercury	112550-01-10 17:58	G	42829113.15	42829113.25	42829113.35	0.2673	0.2012
Mercury	112560-07-09 22:46	G	42832946.34	42832946.45	42832946.56	0.2659	0.0139
Mercury	112563-01-14 00:42	G	42833864.40	42833864.53	42833864.66	0.2675	0.1538
Mercury	112573-07-12 16:32	G	42837697.10	42837697.19	42837697.28	0.2657	0.1535
Venus	112580-01-29 00:13	G	42840088.36	42840088.51	42840088.66	0.2684	0.0757
Mercury	112593-07-08 10:03	G	42844997.82	42844997.92	42844998.01	0.2660	0.1444
Mercury	112596-01-12 00:27	G	42845915.39	42845915.52	42845915.66	0.2673	0.1322
Mercury	112606-07-12 03:34	G	42849748.54	42849748.65	42849748.76	0.2658	0.0246

Mercury	112609-01-15 07:10 G	42850666.72	42850666.80	42850666.89	0.2675	0.2240
Mercury	112619-07-14 21:20 G	42854499.31	42854499.39	42854499.46	0.2657	0.1876
Mercury	112639-07-10 14:51 G	42861800.02	42861800.12	42861800.22	0.2660	0.1090
Mercury	112642-01-13 07:10 G	42862717.64	42862717.80	42862717.95	0.2673	0.0639
Mercury	112652-07-12 08:22 G	42866550.75	42866550.85	42866550.96	0.2658	0.0589
Mercury	112665-07-15 02:08 G	42871301.53	42871301.59	42871301.64	0.2656	0.2223
Mercury	112672-07-08 01:53 G	42873851.53	42873851.58	42873851.62	0.2661	0.2424
Mercury	112685-07-10 19:39 G	42878602.21	42878602.32	42878602.42	0.2659	0.0735
Mercury	112688-01-14 13:39 G	42879519.91	42879520.07	42879520.22	0.2674	0.0060
Mercury	112698-07-13 13:10 G	42883352.95	42883353.05	42883353.16	0.2658	0.0932
Venus	112701-07-28 16:32 G	42884463.04	42884463.19	42884463.34	0.2648	0.1015
Mercury	112711-07-17 06:56 G	42888103.76	42888103.79	42888103.81	0.2656	0.2569
Mercury	112718-07-10 06:41 G	42890653.71	42890653.78	42890653.85	0.2661	0.2070
Mercury	112731-07-13 00:27 G	42895404.41	42895404.52	42895404.63	0.2659	0.0382
Mercury	112734-01-15 20:08 G	42896322.19	42896322.34	42896322.49	0.2674	0.0750
Mercury	112744-07-14 17:58 G	42900155.16	42900155.25	42900155.35	0.2658	0.1283
Mercury	112764-07-10 11:29 G	42907455.90	42907455.98	42907456.06	0.2661	0.1710
Mercury	112767-01-13 20:08 G	42908373.25	42908373.34	42908373.44	0.2672	0.2084
Mercury	112777-07-13 05:15 G	42912206.61	42912206.72	42912206.83	0.2659	0.0030
Mercury	112780-01-17 02:51 G	42913124.48	42913124.62	42913124.75	0.2675	0.1442
Mercury	112790-07-15 22:46 G	42916957.37	42916957.45	42916957.54	0.2657	0.1629
Mercury	112810-07-11 16:17 G	42924258.09	42924258.18	42924258.28	0.2660	0.1356
Mercury	112813-01-14 02:37 G	42925175.48	42925175.61	42925175.74	0.2673	0.1409
Venus	112823-01-31 01:53 G	42928844.43	42928844.58	42928844.73	0.2684	0.0770
Mercury	112823-07-14 10:03 G	42929008.81	42929008.92	42929009.03	0.2659	0.0323
Mercury	112826-01-17 09:20 G	42929926.80	42929926.89	42929926.98	0.2675	0.2142
Mercury	112836-07-16 03:34 G	42933759.58	42933759.65	42933759.73	0.2657	0.1974
Mercury	112856-07-11 21:05 G	42941060.28	42941060.38	42941060.49	0.2660	0.1003
Mercury	112859-01-15 09:20 G	42941977.74	42941977.89	42941978.04	0.2673	0.0716
Mercury	112869-07-14 14:51 G	42945811.01	42945811.12	42945811.23	0.2658	0.0671

Mercury	112882-07-17 08:22 G	42950561.80	42950561.85	42950561.91	0.2657	0.2315
Mercury	112889-07-10 08:08 G	42953111.79	42953111.84	42953111.89	0.2661	0.2343
Mercury	112902-07-14 01:53 G	42957862.48	42957862.58	42957862.69	0.2660	0.0655
Mercury	112905-01-16 15:49 G	42958780.01	42958780.16	42958780.32	0.2673	0.0037
Mercury	112915-07-16 19:39 G	42962613.22	42962613.32	42962613.42	0.2658	0.1017
Mercury	112935-07-12 12:56 G	42969913.97	42969914.04	42969914.12	0.2661	0.1984
Venus	112936-08-01 02:37 G	42970299.59	42970299.61	42970299.62	0.2648	0.2631
Venus	112944-07-29 17:15 G	42973219.07	42973219.22	42973219.37	0.2649	0.1012
Mercury	112948-07-14 06:41 G	42974664.67	42974664.78	42974664.89	0.2659	0.0306
Mercury	112951-01-17 22:17 G	42975582.28	42975582.43	42975582.58	0.2674	0.0665
Mercury	112961-07-17 00:27 G	42979415.43	42979415.52	42979415.61	0.2658	0.1363
Mercury	112981-07-12 17:58 G	42986716.16	42986716.25	42986716.33	0.2661	0.1629
Mercury	112984-01-15 22:32 G	42987633.35	42987633.44	42987633.53	0.2672	0.2151
Mercury	112994-07-15 11:29 G	42991466.87	42991466.98	42991467.10	0.2659	0.0122
Mercury	112997-01-18 05:01 G	42992384.57	42992384.71	42992384.84	0.2674	0.1353

114TH MILLENNIUM CE

This is a list of transits visible from Earth in the 114th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	113007-07-19 05:15 G	42996217.64	42996217.72	42996217.80	0.2658	0.1720		
Mercury	113027-07-14 22:46 G	43003518.35	43003518.45	43003518.54	0.2661	0.1271		
Mercury	113030-01-17 05:01 G	43004435.58	43004435.71	43004435.84	0.2672	0.1465		
Mercury	113040-07-16 16:32 G	43008269.08	43008269.19	43008269.30	0.2659	0.0424		

Mercury	113043-01-20 11:29 G	43009186.88	43009186.98	43009187.08	0.2675	0.2050
Mercury	113053-07-19 10:03 G	43013019.86	43013019.92	43013019.99	0.2657	0.2068
Mercury	113060-07-12 09:34 G	43015569.89	43015569.90	43015569.92	0.2662	0.2619
Venus	113066-02-02 03:49 G	43017600.51	43017600.66	43017600.81	0.2683	0.0768
Mercury	113073-07-15 03:34 G	43020320.54	43020320.65	43020320.75	0.2660	0.0918
Mercury	113076-01-18 11:29 G	43021237.83	43021237.98	43021238.13	0.2673	0.0788
Mercury	113086-07-17 21:20 G	43025071.28	43025071.39	43025071.49	0.2659	0.0766
Mercury	113099-07-20 14:51 G	43029822.08	43029822.12	43029822.17	0.2657	0.2412
Mercury	113106-07-14 14:37 G	43032372.05	43032372.11	43032372.16	0.2662	0.2255
Mercury	113119-07-17 08:22 G	43037122.74	43037122.85	43037122.96	0.2660	0.0562
Mercury	113122-01-19 17:58 G	43038040.10	43038040.25	43038040.41	0.2673	0.0121
Mercury	113132-07-19 02:08 G	43041873.49	43041873.59	43041873.69	0.2658	0.1110
Mercury	113152-07-14 19:25 G	43049174.23	43049174.31	43049174.38	0.2661	0.1901
Mercury	113165-07-17 13:10 G	43053924.94	43053925.05	43053925.16	0.2660	0.0208
Mercury	113168-01-21 00:27 G	43054842.37	43054842.52	43054842.68	0.2673	0.0577
Mercury	113178-07-20 06:56 G	43058675.70	43058675.79	43058675.88	0.2658	0.1460
Venus	113179-08-04 03:20 G	43059055.62	43059055.64	43059055.66	0.2648	0.2621
Venus	113187-08-01 17:58 G	43061975.10	43061975.25	43061975.40	0.2650	0.1028
Mercury	113198-07-16 00:13 G	43065976.42	43065976.51	43065976.60	0.2661	0.1546
Mercury	113201-01-18 00:56 G	43066893.45	43066893.54	43066893.62	0.2672	0.2197
Mercury	113211-07-18 17:58 G	43070727.14	43070727.25	43070727.36	0.2659	0.0146
Mercury	113214-01-21 07:10 G	43071644.66	43071644.80	43071644.93	0.2674	0.1264
Mercury	113224-07-20 11:44 G	43075477.91	43075477.99	43075478.07	0.2658	0.1808
Mercury	113244-07-16 05:01 G	43082778.61	43082778.71	43082778.81	0.2661	0.1188
Mercury	113247-01-19 07:25 G	43083695.68	43083695.81	43083695.93	0.2672	0.1532
Mercury	113257-07-18 22:46 G	43087529.34	43087529.45	43087529.56	0.2659	0.0501
Mercury	113260-01-22 13:39 G	43088446.97	43088447.07	43088447.18	0.2674	0.1968
Mercury	113270-07-21 16:32 G	43092280.13	43092280.19	43092280.25	0.2657	0.2155
Mercury	113277-07-14 16:03 G	43094830.14	43094830.17	43094830.20	0.2662	0.2534
Mercury	113290-07-17 09:49 G	43099580.81	43099580.91	43099581.02	0.2661	0.0825

Mercury	113293-01-19 13:53 G	43100497.93	43100498.08	43100498.22	0.2672	0.0860
Mercury	113303-07-21 03:34 G	43104331.55	43104331.65	43104331.76	0.2659	0.0855
Mercury	113306-01-23 20:08 G	43105249.33	43105249.34	43105249.36	0.2675	0.2657
Venus	113309-02-04 05:15 G	43106356.57	43106356.72	43106356.87	0.2682	0.0818
Mercury	113316-07-22 21:20 G	43109082.35	43109082.39	43109082.42	0.2657	0.2498
Mercury	113323-07-16 20:51 G	43111632.31	43111632.37	43111632.43	0.2662	0.2172
Mercury	113336-07-18 14:37 G	43116383.01	43116383.11	43116383.22	0.2660	0.0481
Mercury	113339-01-21 20:22 G	43117300.19	43117300.35	43117300.50	0.2673	0.0187
Mercury	113349-07-21 08:22 G	43121133.76	43121133.85	43121133.95	0.2658	0.1209
Mercury	113369-07-17 01:39 G	43128434.49	43128434.57	43128434.65	0.2662	0.1814
Mercury	113382-07-19 19:39 G	43133185.20	43133185.32	43133185.43	0.2660	0.0155
Mercury	113385-01-22 02:51 G	43134102.47	43134102.62	43134102.77	0.2673	0.0501
Mercury	113395-07-22 13:10 G	43137935.96	43137936.05	43137936.14	0.2658	0.1553
Mercury	113415-07-19 06:27 G	43145236.68	43145236.77	43145236.86	0.2661	0.1460
Mercury	113418-01-21 03:05 G	43146153.55	43146153.63	43146153.71	0.2671	0.2275
Venus	113422-08-06 04:03 G	43147811.65	43147811.67	43147811.69	0.2649	0.2620
Mercury	113428-07-21 00:27 G	43149987.41	43149987.52	43149987.63	0.2660	0.0250
Venus	113430-08-03 18:41 G	43150731.14	43150731.28	43150731.43	0.2650	0.1025
Mercury	113431-01-24 09:20 G	43150904.75	43150904.89	43150905.03	0.2673	0.1182
Mercury	113441-07-23 17:58 G	43154738.18	43154738.25	43154738.33	0.2658	0.1899
Mercury	113461-07-19 11:15 G	43162038.87	43162038.97	43162039.08	0.2661	0.1103
Mercury	113464-01-22 09:34 G	43162955.78	43162955.90	43162956.02	0.2672	0.1606
Mercury	113474-07-22 05:15 G	43166789.61	43166789.72	43166789.82	0.2659	0.0594
Mercury	113477-01-24 15:49 G	43167707.05	43167707.16	43167707.27	0.2674	0.1865
Mercury	113487-07-24 22:46 G	43171540.40	43171540.45	43171540.51	0.2658	0.2246
Mercury	113494-07-17 22:17 G	43174090.39	43174090.43	43174090.47	0.2662	0.2454
Mercury	113507-07-21 16:17 G	43178841.07	43178841.18	43178841.28	0.2661	0.0745
Mercury	113510-01-23 16:03 G	43179758.03	43179758.17	43179758.32	0.2672	0.0928
Mercury	113520-07-23 10:03 G	43183591.81	43183591.92	43183592.02	0.2659	0.0943
Mercury	113523-01-26 22:17 G	43184509.39	43184509.43	43184509.48	0.2674	0.2564

Mercury	113533-07-26 03:34 G	43188342.63	43188342.65	43188342.67	0.2657	0.2598
Mercury	113540-07-19 03:05 G	43190892.57	43190892.63	43190892.70	0.2662	0.2091
Venus	113552-02-07 06:56 G	43195112.64	43195112.79	43195112.94	0.2682	0.0836
Mercury	113553-07-21 21:05 G	43195643.27	43195643.38	43195643.49	0.2660	0.0388
Mercury	113556-01-24 22:32 G	43196560.29	43196560.44	43196560.60	0.2672	0.0256
Mercury	113566-07-24 14:51 G	43200394.02	43200394.12	43200394.21	0.2659	0.1290
Mercury	113586-07-20 07:53 G	43207694.75	43207694.83	43207694.92	0.2662	0.1732
Mercury	113599-07-23 01:53 G	43212445.47	43212445.58	43212445.69	0.2660	0.0057
Mercury	113602-01-25 05:01 G	43213362.56	43213362.71	43213362.87	0.2673	0.0431
Mercury	113612-07-24 19:39 G	43217196.23	43217196.32	43217196.40	0.2659	0.1640
Mercury	113632-07-20 12:56 G	43224496.94	43224497.04	43224497.13	0.2661	0.1369
Mercury	113635-01-23 05:29 G	43225413.66	43225413.73	43225413.81	0.2671	0.2322
Mercury	113645-07-23 06:41 G	43229247.67	43229247.78	43229247.89	0.2660	0.0325
Mercury	113648-01-26 11:29 G	43230164.84	43230164.98	43230165.12	0.2673	0.1102
Mercury	113658-07-26 00:27 G	43233998.45	43233998.52	43233998.59	0.2658	0.1992
Venus	113665-08-07 04:46 G	43236567.67	43236567.70	43236567.72	0.2650	0.2595
Venus	113673-08-04 19:39 G	43239487.17	43239487.32	43239487.47	0.2651	0.1035
Mercury	113678-07-21 17:44 G	43241299.13	43241299.24	43241299.34	0.2661	0.1015
Mercury	113681-01-23 11:58 G	43242215.88	43242216.00	43242216.12	0.2671	0.1668
Mercury	113691-07-24 11:29 G	43246049.87	43246049.98	43246050.09	0.2660	0.0681
Mercury	113694-01-26 17:58 G	43246967.14	43246967.25	43246967.37	0.2674	0.1792
Mercury	113704-07-27 05:15 G	43250800.67	43250800.72	43250800.77	0.2658	0.2348
Mercury	113711-07-21 04:32 G	43253350.64	43253350.69	43253350.74	0.2663	0.2371
Mercury	113724-07-22 22:32 G	43258101.33	43258101.44	43258101.55	0.2661	0.0657
Mercury	113727-01-25 18:27 G	43259018.13	43259018.27	43259018.41	0.2672	0.0994
Mercury	113737-07-25 16:17 G	43262852.08	43262852.18	43262852.28	0.2659	0.1035
Mercury	113740-01-29 00:27 G	43263769.47	43263769.52	43263769.58	0.2674	0.2474
Mercury	113757-07-21 09:20 G	43270152.82	43270152.89	43270152.97	0.2662	0.2009
Mercury	113770-07-24 03:20 G	43274903.53	43274903.64	43274903.75	0.2661	0.0299
Mercury	113773-01-26 00:56 G	43275820.39	43275820.54	43275820.69	0.2672	0.0322

Mercury	113783-07-26 21:05 G	43279654.29	43279654.38	43279654.48	0.2659	0.1386
Venus	113795-02-08 08:08 G	43283868.69	43283868.84	43283868.99	0.2681	0.0898
Mercury	113803-07-23 14:22 G	43286955.01	43286955.10	43286955.18	0.2662	0.1648
Mercury	113816-07-25 08:08 G	43291705.73	43291705.84	43291705.95	0.2660	0.0071
Mercury	113819-01-28 07:25 G	43292622.66	43292622.81	43292622.96	0.2672	0.0352
Mercury	113829-07-28 01:53 G	43296456.50	43296456.58	43296456.67	0.2659	0.1736
Mercury	113849-07-23 19:10 G	43303757.20	43303757.30	43303757.39	0.2662	0.1290
Mercury	113852-01-26 08:08 G	43304673.77	43304673.84	43304673.90	0.2671	0.2378
Mercury	113862-07-26 12:56 G	43308507.93	43308508.04	43308508.15	0.2660	0.0423
Mercury	113865-01-28 13:53 G	43309424.94	43309425.08	43309425.22	0.2673	0.1028
Mercury	113875-07-29 06:56 G	43313258.72	43313258.79	43313258.85	0.2658	0.2088
Mercury	113882-07-22 05:58 G	43315808.74	43315808.75	43315808.76	0.2663	0.2651
Mercury	113895-07-24 23:58 G	43320559.39	43320559.50	43320559.60	0.2662	0.0925
Mercury	113898-01-26 14:22 G	43321475.99	43321476.10	43321476.22	0.2671	0.1714
Mercury	113908-07-27 17:58 G	43325310.14	43325310.25	43325310.35	0.2660	0.0777
Venus	113908-08-10 05:29 G	43325323.70	43325323.73	43325323.76	0.2650	0.2598
Mercury	113911-01-30 20:22 G	43326227.23	43326227.35	43326227.47	0.2673	0.1704
Venus	113916-08-07 20:22 G	43328243.21	43328243.35	43328243.50	0.2652	0.1040
Mercury	113921-07-30 11:44 G	43330060.95	43330060.99	43330061.03	0.2658	0.2437
Mercury	113928-07-23 10:46 G	43332610.90	43332610.95	43332611.01	0.2663	0.2287
Mercury	113941-07-26 04:46 G	43337361.59	43337361.70	43337361.81	0.2661	0.0567
Mercury	113944-01-28 20:51 G	43338278.23	43338278.37	43338278.51	0.2671	0.1052
Mercury	113954-07-28 22:46 G	43342112.35	43342112.45	43342112.55	0.2660	0.1128
Mercury	113957-01-31 02:51 G	43343029.55	43343029.62	43343029.69	0.2673	0.2396
Mercury	113974-07-24 15:49 G	43349413.08	43349413.16	43349413.23	0.2663	0.1923
Mercury	113987-07-27 09:49 G	43354163.79	43354163.91	43354164.02	0.2661	0.0226
Mercury	113990-01-29 03:20 G	43355080.49	43355080.64	43355080.79	0.2672	0.0385
Mercury	114000-07-29 03:34 G	43358914.56	43358914.65	43358914.74	0.2659	0.1480

115TH MILLENNIUM CE

This is a list of transits visible from Earth in the 115th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	114020-07-24 20:37	G	43366215.27	43366215.36	43366215.45	0.2662	0.1558	
Mercury	114033-07-27 14:37	G	43370966.00	43370966.11	43370966.22	0.2661	0.0162	
Mercury	114036-01-30 09:49	G	43371882.75	43371882.91	43371883.06	0.2672	0.0288	
Venus	114038-02-10 09:34	G	43372624.75	43372624.90	43372625.05	0.2680	0.0929	
Mercury	114046-07-30 08:22	G	43375716.77	43375716.85	43375716.93	0.2659	0.1831	
Mercury	114066-07-26 01:25	G	43383017.46	43383017.56	43383017.66	0.2662	0.1198	
Mercury	114069-01-27 10:32	G	43383933.88	43383933.94	43383934.00	0.2670	0.2423	
Mercury	114079-07-28 19:25	G	43387768.20	43387768.31	43387768.42	0.2660	0.0509	
Mercury	114082-01-30 16:03	G	43388685.03	43388685.17	43388685.32	0.2672	0.0947	
Mercury	114092-07-30 13:10	G	43392518.99	43392519.05	43392519.11	0.2659	0.2178	
Mercury	114099-07-24 12:13	G	43395068.98	43395069.01	43395069.04	0.2663	0.2566	
Mercury	114112-07-27 06:13	G	43399819.66	43399819.76	43399819.87	0.2662	0.0843	
Mercury	114115-01-29 16:46	G	43400736.09	43400736.20	43400736.32	0.2671	0.1771	
Mercury	114125-07-30 00:13	G	43404570.40	43404570.51	43404570.62	0.2660	0.0862	
Mercury	114128-02-01 22:32	G	43405487.32	43405487.44	43405487.57	0.2673	0.1631	
Mercury	114138-08-01 17:58	G	43409321.22	43409321.25	43409321.28	0.2658	0.2531	
Mercury	114145-07-25 17:01	G	43411871.15	43411871.21	43411871.28	0.2663	0.2202	
Venus	114151-08-12 06:27	G	43414079.74	43414079.77	43414079.80	0.2651	0.2586	
Mercury	114158-07-28 11:15	G	43416621.86	43416621.97	43416622.08	0.2662	0.0479	
Venus	114159-08-09 21:34	G	43416999.25	43416999.40	43416999.55	0.2653	0.1026	

Mercury	114161-01-29 23:15 G	43417538.33	43417538.47	43417538.61	0.2671	0.1105
Mercury	114171-07-31 05:01 G	43421372.61	43421372.71	43421372.81	0.2660	0.1218
Mercury	114174-02-02 05:15 G	43422289.64	43422289.72	43422289.79	0.2673	0.2315
Mercury	114191-07-26 22:03 G	43428673.34	43428673.42	43428673.50	0.2663	0.1832
Mercury	114204-07-29 16:03 G	43433424.06	43433424.17	43433424.28	0.2661	0.0115
Mercury	114207-02-01 05:44 G	43434340.59	43434340.74	43434340.89	0.2671	0.0447
Mercury	114217-08-01 09:49 G	43438174.82	43438174.91	43438175.00	0.2659	0.1573
Mercury	114237-07-28 02:51 G	43445475.53	43445475.62	43445475.72	0.2663	0.1467
Mercury	114250-07-30 20:51 G	43450226.26	43450226.37	43450226.48	0.2661	0.0246
Mercury	114253-02-01 12:13 G	43451142.86	43451143.01	43451143.16	0.2671	0.0222
Mercury	114263-08-02 14:37 G	43454977.04	43454977.11	43454977.19	0.2659	0.1925
Venus	114273-02-14 19:10 G	43458461.28	43458461.30	43458461.33	0.2681	0.2628
Venus	114281-02-12 10:46 G	43461380.81	43461380.95	43461381.10	0.2679	0.0992
Mercury	114283-07-29 07:39 G	43462277.72	43462277.82	43462277.93	0.2662	0.1110
Mercury	114286-01-30 12:56 G	43463193.99	43463194.04	43463194.10	0.2670	0.2469
Mercury	114296-07-31 01:39 G	43467028.46	43467028.57	43467028.68	0.2661	0.0598
Mercury	114299-02-02 18:41 G	43467945.13	43467945.28	43467945.42	0.2672	0.0891
Mercury	114309-08-03 19:39 G	43471779.26	43471779.32	43471779.37	0.2659	0.2282
Mercury	114316-07-27 18:27 G	43474329.24	43474329.27	43474329.31	0.2664	0.2480
Mercury	114329-07-30 12:41 G	43479079.92	43479080.03	43479080.13	0.2662	0.0749
Mercury	114332-02-01 19:25 G	43479996.20	43479996.31	43479996.42	0.2670	0.1821
Mercury	114342-08-02 06:27 G	43483830.67	43483830.77	43483830.88	0.2660	0.0960
Mercury	114345-02-04 01:10 G	43484747.42	43484747.55	43484747.67	0.2672	0.1563
Mercury	114355-08-05 00:27 G	43488581.51	43488581.52	43488581.53	0.2659	0.2631
Mercury	114362-07-28 23:29 G	43491131.41	43491131.48	43491131.54	0.2664	0.2111
Mercury	114375-07-31 17:29 G	43495882.12	43495882.23	43495882.34	0.2662	0.0386
Mercury	114378-02-02 01:53 G	43496798.44	43496798.58	43496798.71	0.2671	0.1168
Mercury	114388-08-02 11:15 G	43500632.88	43500632.97	43500633.07	0.2660	0.1319
Mercury	114391-02-05 07:24 G	43501549.73	43501549.81	43501549.90	0.2673	0.2239
Venus	114394-08-14 07:39 G	43502835.79	43502835.82	43502835.84	0.2652	0.2602

Venus	114402-08-11 22:46 G	43505755.30	43505755.45	43505755.60	0.2654	0.1008
Mercury	114408-07-29 04:17 G	43507933.60	43507933.68	43507933.76	0.2663	0.1745
Mercury	114421-07-31 22:17 G	43512684.32	43512684.43	43512684.54	0.2661	0.0026
Mercury	114424-02-03 08:22 G	43513600.70	43513600.85	43513601.00	0.2671	0.0496
Mercury	114434-08-03 16:17 G	43517435.09	43517435.18	43517435.26	0.2660	0.1671
Mercury	114454-07-30 09:05 G	43524735.79	43524735.88	43524735.98	0.2663	0.1382
Mercury	114467-08-02 03:05 G	43529486.52	43529486.63	43529486.74	0.2661	0.0332
Mercury	114470-02-03 14:36 G	43530402.96	43530403.11	43530403.27	0.2671	0.0179
Mercury	114480-08-03 21:05 G	43534237.31	43534237.38	43534237.45	0.2660	0.2023
Mercury	114500-07-31 13:53 G	43541537.98	43541538.08	43541538.19	0.2663	0.1021
Mercury	114503-02-02 15:34 G	43542454.10	43542454.15	43542454.20	0.2670	0.2504
Mercury	114513-08-03 07:53 G	43546288.73	43546288.83	43546288.94	0.2661	0.0706
Mercury	114516-02-05 21:05 G	43547205.24	43547205.38	43547205.53	0.2672	0.0834
Venus	114516-02-17 20:36 G	43547217.33	43547217.36	43547217.40	0.2680	0.2597
Venus	114524-02-15 11:58 G	43550136.86	43550137.00	43550137.15	0.2678	0.1049
Mercury	114526-08-06 01:53 G	43551039.53	43551039.58	43551039.63	0.2659	0.2376
Mercury	114533-07-30 00:41 G	43553589.49	43553589.53	43553589.58	0.2664	0.2390
Mercury	114546-08-01 18:56 G	43558340.18	43558340.29	43558340.40	0.2662	0.0653
Mercury	114549-02-02 22:03 G	43559256.31	43559256.42	43559256.53	0.2670	0.1852
Mercury	114559-08-04 12:56 G	43563090.94	43563091.04	43563091.14	0.2661	0.1060
Mercury	114562-02-06 03:34 G	43564007.52	43564007.65	43564007.77	0.2672	0.1499
Mercury	114579-07-31 05:44 G	43570391.67	43570391.74	43570391.81	0.2664	0.2024
Mercury	114592-08-01 23:44 G	43575142.38	43575142.49	43575142.60	0.2662	0.0290
Mercury	114595-02-04 04:32 G	43576058.55	43576058.69	43576058.82	0.2670	0.1195
Mercury	114605-08-05 17:44 G	43579893.15	43579893.24	43579893.33	0.2660	0.1414
Mercury	114608-02-08 09:48 G	43580809.83	43580809.91	43580810.00	0.2672	0.2164
Mercury	114625-08-01 10:32 G	43587193.85	43587193.94	43587194.03	0.2663	0.1658
Venus	114637-08-16 08:36 G	43591591.84	43591591.86	43591591.89	0.2653	0.2612
Mercury	114638-08-04 04:32 G	43591944.58	43591944.69	43591944.80	0.2662	0.0089
Mercury	114641-02-05 10:46 G	43592860.80	43592860.95	43592861.10	0.2671	0.0553

Venus	114645-08-13 23:58 G	43594511.35	43594511.50	43594511.65	0.2655	0.0995
Mercury	114651-08-06 22:32 G	43596695.36	43596695.44	43596695.53	0.2660	0.1770
Mercury	114671-08-02 15:20 G	43603996.04	43603996.14	43603996.24	0.2663	0.1292
Mercury	114684-08-04 09:34 G	43608746.79	43608746.90	43608747.01	0.2661	0.0445
Mercury	114687-02-06 17:15 G	43609663.06	43609663.22	43609663.37	0.2671	0.0132
Mercury	114697-08-07 03:20 G	43613497.58	43613497.64	43613497.71	0.2660	0.2125
Mercury	114717-08-03 20:22 G	43620798.24	43620798.35	43620798.45	0.2663	0.0926
Mercury	114720-02-05 18:27 G	43621714.22	43621714.27	43621714.31	0.2669	0.2532
Mercury	114730-08-06 14:22 G	43625548.99	43625549.10	43625549.21	0.2661	0.0796
Mercury	114733-02-07 23:29 G	43626465.33	43626465.48	43626465.63	0.2671	0.0766
Mercury	114743-08-09 08:08 G	43630299.81	43630299.84	43630299.88	0.2659	0.2480
Mercury	114750-08-02 06:56 G	43632849.74	43632849.79	43632849.85	0.2664	0.2305
Venus	114759-02-19 21:48 G	43635973.37	43635973.41	43635973.46	0.2679	0.2540
Mercury	114763-08-05 01:10 G	43637600.44	43637600.55	43637600.66	0.2663	0.0559
Mercury	114766-02-06 00:41 G	43638516.42	43638516.53	43638516.64	0.2669	0.1879
Venus	114767-02-17 13:10 G	43638892.91	43638893.05	43638893.20	0.2678	0.1096
Mercury	114776-08-06 19:10 G	43642351.20	43642351.30	43642351.40	0.2661	0.1151
Mercury	114779-02-09 05:58 G	43643267.62	43643267.75	43643267.88	0.2672	0.1436
Mercury	114796-08-02 11:58 G	43649651.92	43649652.00	43649652.07	0.2664	0.1932
Mercury	114809-08-05 05:58 G	43654402.64	43654402.75	43654402.86	0.2662	0.0206
Mercury	114812-02-07 06:56 G	43655318.66	43655318.79	43655318.92	0.2670	0.1246
Mercury	114822-08-07 23:58 G	43659153.41	43659153.50	43659153.59	0.2661	0.1509
Mercury	114825-02-09 12:27 G	43660069.93	43660070.02	43660070.11	0.2672	0.2109
Mercury	114842-08-03 16:46 G	43666454.11	43666454.20	43666454.29	0.2664	0.1562
Mercury	114855-08-06 11:00 G	43671204.85	43671204.96	43671205.07	0.2662	0.0184
Mercury	114858-02-07 13:24 G	43672120.91	43672121.06	43672121.21	0.2670	0.0591
Mercury	114868-08-08 04:46 G	43675955.63	43675955.70	43675955.78	0.2660	0.1873
Venus	114880-08-17 10:03 G	43680347.90	43680347.92	43680347.93	0.2654	0.2634
Mercury	114888-08-03 21:48 G	43683256.31	43683256.41	43683256.51	0.2663	0.1196
Venus	114888-08-15 01:24 G	43683267.41	43683267.56	43683267.70	0.2655	0.0974

Mercury	114901-08-07 15:48 G	43688007.05	43688007.16	43688007.27	0.2662	0.0533
Mercury	114904-02-09 19:39 G	43688923.17	43688923.32	43688923.47	0.2670	0.0071
Mercury	114914-08-10 09:48 G	43692757.85	43692757.91	43692757.97	0.2660	0.2227
Mercury	114921-08-03 08:22 G	43695307.83	43695307.85	43695307.87	0.2665	0.2585
Mercury	114934-08-06 02:36 G	43700058.50	43700058.61	43700058.72	0.2663	0.0830
Mercury	114937-02-06 20:51 G	43700974.34	43700974.37	43700974.41	0.2669	0.2565
Mercury	114947-08-08 20:36 G	43704809.26	43704809.36	43704809.47	0.2661	0.0889
Mercury	114950-02-10 02:08 G	43705725.44	43705725.59	43705725.73	0.2671	0.0716
Mercury	114960-08-10 14:36 G	43709560.09	43709560.11	43709560.13	0.2660	0.2579
Mercury	114967-08-04 13:10 G	43712109.99	43712110.05	43712110.11	0.2665	0.2212
Mercury	114980-08-06 07:24 G	43716860.70	43716860.81	43716860.92	0.2663	0.0466
Mercury	114983-02-08 03:20 G	43717776.53	43717776.64	43717776.74	0.2669	0.1936
Mercury	114993-08-09 01:24 G	43721611.46	43721611.56	43721611.66	0.2661	0.1249
Mercury	114996-02-11 08:22 G	43722527.72	43722527.85	43722527.98	0.2671	0.1377

116TH MILLENNIUM CE

This is a list of transits visible from Earth in the 116th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	115002-02-21 23:00 G		43724729.41	43724729.46	43724729.52	0.2678	0.2501	
Venus	115010-02-19 14:22 G		43727648.95	43727649.10	43727649.24	0.2677	0.1165	
Mercury	115013-08-05 18:12 G		43728912.18	43728912.26	43728912.34	0.2664	0.1842	
Mercury	115026-08-08 12:27 G		43733662.90	43733663.02	43733663.13	0.2663	0.0148	
Mercury	115029-02-09 09:34 G		43734578.77	43734578.90	43734579.04	0.2670	0.1283	

Mercury	115039-08-11 06:12 G	43738413.68	43738413.76	43738413.85	0.2661	0.1616
Mercury	115042-02-12 14:51 G	43739330.02	43739330.12	43739330.22	0.2671	0.2040
Mercury	115059-08-06 23:00 G	43745714.37	43745714.46	43745714.56	0.2664	0.1470
Mercury	115072-08-08 17:15 G	43750465.11	43750465.22	43750465.33	0.2662	0.0272
Mercury	115075-02-10 16:03 G	43751381.02	43751381.17	43751381.32	0.2670	0.0634
Mercury	115085-08-11 11:15 G	43755215.89	43755215.97	43755216.04	0.2660	0.1966
Mercury	115105-08-08 04:03 G	43762516.56	43762516.67	43762516.77	0.2664	0.1109
Mercury	115118-08-10 22:03 G	43767267.31	43767267.42	43767267.53	0.2662	0.0625
Mercury	115121-02-11 22:17 G	43768183.28	43768183.43	43768183.58	0.2670	0.0054
Venus	115123-08-21 11:15 G	43769103.97	43769103.97	43769103.98	0.2654	0.2648
Mercury	115131-08-13 16:03 G	43772018.12	43772018.17	43772018.22	0.2660	0.2320
Venus	115131-08-19 02:36 G	43772023.46	43772023.61	43772023.76	0.2656	0.0966
Mercury	115138-08-06 14:36 G	43774568.07	43774568.11	43774568.15	0.2665	0.2489
Mercury	115151-08-09 08:51 G	43779318.76	43779318.87	43779318.98	0.2663	0.0738
Mercury	115154-02-09 23:44 G	43780234.46	43780234.49	43780234.52	0.2668	0.2594
Mercury	115164-08-11 02:51 G	43784069.52	43784069.62	43784069.73	0.2662	0.0988
Mercury	115167-02-13 04:46 G	43784985.55	43784985.70	43784985.84	0.2671	0.0670
Mercury	115184-08-06 19:24 G	43791370.25	43791370.31	43791370.38	0.2665	0.2124
Mercury	115197-08-09 13:39 G	43796120.96	43796121.07	43796121.18	0.2663	0.0371
Mercury	115200-02-11 05:58 G	43797036.65	43797036.75	43797036.85	0.2669	0.1954
Mercury	115210-08-12 07:53 G	43800871.73	43800871.83	43800871.92	0.2661	0.1356
Mercury	115213-02-13 11:00 G	43801787.83	43801787.96	43801788.09	0.2671	0.1326
Mercury	115230-08-08 00:27 G	43808172.43	43808172.52	43808172.60	0.2665	0.1752
Mercury	115243-08-10 18:27 G	43812923.16	43812923.27	43812923.39	0.2663	0.0094
Venus	115245-02-23 00:12 G	43813485.44	43813485.51	43813485.57	0.2678	0.2435
Mercury	115246-02-11 12:12 G	43813838.88	43813839.01	43813839.14	0.2669	0.1322
Venus	115253-02-20 15:20 G	43816405.00	43816405.14	43816405.28	0.2676	0.1232
Mercury	115256-08-12 12:41 G	43817673.94	43817674.03	43817674.11	0.2661	0.1707
Mercury	115259-02-14 17:15 G	43818590.12	43818590.22	43818590.33	0.2671	0.1975
Mercury	115276-08-08 05:15 G	43824974.62	43824974.72	43824974.82	0.2664	0.1384

Mercury	115289-08-10 23:29 G	43829725.37	43829725.48	43829725.59	0.2663	0.0364
Mercury	115292-02-12 18:41 G	43830641.13	43830641.28	43830641.42	0.2669	0.0680
Mercury	115302-08-14 17:29 G	43834476.16	43834476.23	43834476.30	0.2661	0.2063
Mercury	115305-02-15 23:44 G	43835392.47	43835392.49	43835392.51	0.2671	0.2630
Mercury	115322-08-10 10:03 G	43841776.82	43841776.92	43841777.03	0.2664	0.1017
Mercury	115335-08-13 04:17 G	43846527.57	43846527.68	43846527.79	0.2662	0.0719
Mercury	115338-02-14 00:56 G	43847443.39	43847443.54	43847443.69	0.2670	0.0043
Mercury	115348-08-14 22:17 G	43851278.39	43851278.43	43851278.48	0.2661	0.2424
Mercury	115355-08-08 20:51 G	43853828.32	43853828.37	43853828.41	0.2666	0.2412
Mercury	115368-08-10 15:05 G	43858579.02	43858579.13	43858579.24	0.2664	0.0647
Mercury	115371-02-12 02:36 G	43859494.58	43859494.61	43859494.63	0.2668	0.2610
Venus	115374-08-20 04:03 G	43860779.52	43860779.67	43860779.82	0.2657	0.0926
Mercury	115381-08-13 09:20 G	43863329.78	43863329.89	43863329.99	0.2662	0.1092
Mercury	115384-02-15 07:24 G	43864245.66	43864245.81	43864245.95	0.2670	0.0623
Mercury	115401-08-10 01:39 G	43870630.50	43870630.57	43870630.64	0.2665	0.2032
Mercury	115414-08-12 19:53 G	43875381.22	43875381.33	43875381.44	0.2664	0.0276
Mercury	115417-02-13 08:51 G	43876296.77	43876296.87	43876296.97	0.2668	0.1985
Mercury	115427-08-15 14:08 G	43880131.99	43880132.09	43880132.18	0.2662	0.1446
Mercury	115430-02-16 13:39 G	43881047.93	43881048.07	43881048.20	0.2670	0.1266
Mercury	115447-08-11 06:27 G	43887432.69	43887432.77	43887432.86	0.2665	0.1664
Mercury	115460-08-13 00:56 G	43892183.42	43892183.54	43892183.65	0.2663	0.0128
Mercury	115463-02-14 15:05 G	43893099.00	43893099.13	43893099.26	0.2668	0.1351
Mercury	115473-08-15 18:56 G	43896934.21	43896934.29	43896934.37	0.2661	0.1806
Mercury	115476-02-17 19:53 G	43897850.23	43897850.33	43897850.44	0.2671	0.1918
Venus	115488-02-26 00:56 G	43902241.47	43902241.54	43902241.62	0.2677	0.2356
Mercury	115493-08-11 11:29 G	43904234.88	43904234.98	43904235.08	0.2665	0.1290
Venus	115496-02-23 16:03 G	43905161.03	43905161.17	43905161.31	0.2675	0.1329
Mercury	115506-08-15 05:44 G	43908985.63	43908985.74	43908985.85	0.2663	0.0454
Mercury	115509-02-15 21:20 G	43909901.24	43909901.39	43909901.53	0.2669	0.0720
Mercury	115519-08-17 23:44 G	43913736.43	43913736.49	43913736.56	0.2661	0.2168

Mercury	115522-02-19 02:22 G	43914652.56	43914652.60	43914652.63	0.2671	0.2581
Mercury	115539-08-13 16:17 G	43921037.08	43921037.18	43921037.29	0.2665	0.0924
Mercury	115552-08-15 10:32 G	43925787.84	43925787.94	43925788.05	0.2663	0.0827
Mercury	115555-02-17 03:34 G	43926703.50	43926703.65	43926703.80	0.2669	0.0082
Mercury	115565-08-18 04:32 G	43930538.66	43930538.69	43930538.73	0.2661	0.2529
Mercury	115572-08-11 02:51 G	43933088.57	43933088.62	43933088.68	0.2666	0.2320
Mercury	115585-08-13 21:20 G	43937839.28	43937839.39	43937839.50	0.2664	0.0550
Mercury	115588-02-15 05:15 G	43938754.70	43938754.72	43938754.73	0.2667	0.2644
Mercury	115598-08-16 15:20 G	43942590.04	43942590.14	43942590.25	0.2662	0.1188
Mercury	115601-02-17 09:48 G	43943505.77	43943505.91	43943506.06	0.2669	0.0563
Venus	115617-08-22 05:29 G	43949535.59	43949535.73	43949535.88	0.2658	0.0903
Mercury	115618-08-12 07:53 G	43949890.75	43949890.83	43949890.90	0.2666	0.1946
Mercury	115631-08-15 02:08 G	43954641.48	43954641.59	43954641.70	0.2664	0.0188
Mercury	115634-02-15 11:29 G	43955556.88	43955556.98	43955557.08	0.2668	0.2012
Mercury	115644-08-16 20:22 G	43959392.26	43959392.35	43959392.44	0.2662	0.1546
Mercury	115647-02-18 16:17 G	43960308.04	43960308.18	43960308.31	0.2670	0.1211
Mercury	115664-08-12 12:41 G	43966692.94	43966693.03	43966693.12	0.2665	0.1571
Mercury	115677-08-15 06:56 G	43971443.68	43971443.79	43971443.91	0.2664	0.0207
Mercury	115680-02-16 17:44 G	43972359.11	43972359.24	43972359.37	0.2668	0.1382
Mercury	115690-08-18 01:10 G	43976194.47	43976194.55	43976194.63	0.2662	0.1903
Mercury	115693-02-18 22:32 G	43977110.34	43977110.44	43977110.55	0.2670	0.1866
Mercury	115710-08-14 17:44 G	43983495.14	43983495.24	43983495.34	0.2665	0.1198
Mercury	115723-08-17 11:58 G	43988245.89	43988246.00	43988246.11	0.2663	0.0556
Mercury	115726-02-18 00:12 G	43989161.36	43989161.51	43989161.65	0.2668	0.0748
Venus	115731-02-28 01:39 G	43990997.49	43990997.57	43990997.65	0.2676	0.2250
Mercury	115736-08-19 05:58 G	43992996.70	43992996.75	43992996.81	0.2661	0.2268
Mercury	115739-02-21 05:00 G	43993912.66	43993912.71	43993912.75	0.2671	0.2523
Venus	115739-02-25 16:46 G	43993917.07	43993917.20	43993917.34	0.2674	0.1412
Mercury	115743-08-13 04:17 G	43995546.66	43995546.68	43995546.70	0.2667	0.2604
Mercury	115756-08-14 22:32 G	44000297.34	44000297.44	44000297.55	0.2665	0.0825

Mercury	115769-08-17 16:46 G	44005048.10	44005048.20	44005048.31	0.2663	0.0921
Mercury	115772-02-19 06:27 G	44005963.62	44005963.77	44005963.92	0.2669	0.0135
Mercury	115782-08-20 11:00 G	44009798.94	44009798.96	44009798.97	0.2661	0.2626
Mercury	115789-08-13 09:05 G	44012348.82	44012348.88	44012348.94	0.2666	0.2228
Mercury	115802-08-17 03:34 G	44017099.54	44017099.65	44017099.76	0.2664	0.0461
Mercury	115805-02-17 08:08 G	44018014.83	44018014.84	44018014.85	0.2667	0.2649
Mercury	115815-08-19 21:34 G	44021850.31	44021850.40	44021850.50	0.2663	0.1288
Mercury	115818-02-20 12:41 G	44022765.88	44022766.03	44022766.18	0.2669	0.0528
Mercury	115835-08-15 14:08 G	44029151.01	44029151.09	44029151.17	0.2666	0.1852
Mercury	115848-08-17 08:22 G	44033901.74	44033901.85	44033901.96	0.2664	0.0090
Mercury	115851-02-18 14:22 G	44034817.00	44034817.10	44034817.19	0.2667	0.2038
Venus	115860-08-24 07:10 G	44038291.65	44038291.80	44038291.95	0.2659	0.0871
Mercury	115861-08-20 02:36 G	44038652.52	44038652.61	44038652.70	0.2662	0.1643
Mercury	115864-02-21 18:56 G	44039568.15	44039568.29	44039568.42	0.2670	0.1166
Mercury	115881-08-15 18:56 G	44045953.20	44045953.29	44045953.38	0.2666	0.1479
Mercury	115894-08-18 13:10 G	44050703.94	44050704.05	44050704.17	0.2664	0.0294
Mercury	115897-02-18 20:36 G	44051619.23	44051619.36	44051619.48	0.2668	0.1413
Mercury	115907-08-22 07:24 G	44055454.74	44055454.81	44055454.88	0.2662	0.2011
Mercury	115910-02-23 01:10 G	44056370.44	44056370.55	44056370.66	0.2670	0.1812
Mercury	115927-08-17 23:58 G	44062755.39	44062755.50	44062755.60	0.2665	0.1108
Mercury	115940-08-19 18:12 G	44067506.15	44067506.26	44067506.37	0.2663	0.0654
Mercury	115943-02-21 02:51 G	44068421.48	44068421.62	44068421.76	0.2668	0.0785
Mercury	115953-08-22 12:27 G	44072256.97	44072257.02	44072257.06	0.2662	0.2371
Mercury	115956-02-24 07:24 G	44073172.76	44073172.81	44073172.87	0.2670	0.2454
Mercury	115960-08-15 10:17 G	44074806.90	44074806.93	44074806.97	0.2667	0.2516
Mercury	115973-08-18 04:46 G	44079557.59	44079557.70	44079557.81	0.2665	0.0733
Venus	115974-03-02 02:22 G	44079753.51	44079753.60	44079753.70	0.2675	0.2174
Venus	115982-02-27 17:29 G	44082673.10	44082673.23	44082673.36	0.2673	0.1518
Mercury	115986-08-20 23:00 G	44084308.36	44084308.46	44084308.57	0.2663	0.1015
Mercury	115989-02-21 09:05 G	44085223.73	44085223.88	44085224.03	0.2668	0.0149

117TH MILLENNIUM CE

This is a list of transits visible from Earth in the 117th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	116006-08-16 15:20	G	44091609.07	44091609.14	44091609.20	0.2667	0.2133	
Mercury	116019-08-19 09:34	G	44096359.79	44096359.90	44096360.02	0.2665	0.0366	
Mercury	116032-08-21 03:48	G	44101110.57	44101110.66	44101110.76	0.2663	0.1383	
Mercury	116035-02-22 15:20	G	44102025.99	44102026.14	44102026.29	0.2669	0.0491	
Mercury	116052-08-16 20:08	G	44108411.26	44108411.34	44108411.43	0.2666	0.1759	
Mercury	116065-08-19 14:36	G	44113162.00	44113162.11	44113162.22	0.2665	0.0021	
Mercury	116068-02-20 17:15	G	44114077.13	44114077.22	44114077.31	0.2667	0.2051	
Mercury	116078-08-22 08:51	G	44117912.79	44117912.87	44117912.95	0.2663	0.1752	
Mercury	116081-02-22 21:34	G	44118828.27	44118828.40	44118828.54	0.2669	0.1133	
Mercury	116098-08-18 01:10	G	44125213.45	44125213.55	44125213.64	0.2666	0.1382	
Venus	116103-08-27 08:51	G	44127047.72	44127047.87	44127048.02	0.2660	0.0849	
Mercury	116111-08-21 19:24	G	44129964.20	44129964.31	44129964.43	0.2664	0.0397	
Mercury	116114-02-21 23:29	G	44130879.35	44130879.48	44130879.60	0.2667	0.1428	
Mercury	116124-08-23 13:39	G	44134715.01	44134715.07	44134715.14	0.2662	0.2114	
Mercury	116127-02-25 03:48	G	44135630.55	44135630.66	44135630.78	0.2669	0.1769	
Mercury	116144-08-19 05:58	G	44142015.65	44142015.75	44142015.86	0.2666	0.1011	
Mercury	116157-08-22 00:27	G	44146766.41	44146766.52	44146766.63	0.2664	0.0751	
Mercury	116160-02-23 05:44	G	44147681.60	44147681.74	44147681.88	0.2667	0.0802	
Mercury	116170-08-24 18:41	G	44151517.24	44151517.28	44151517.31	0.2662	0.2474	

Mercury	116173-02-25 10:17 G	44152432.87	44152432.93	44152432.99	0.2670	0.2411
Mercury	116177-08-17 16:32 G	44154067.14	44154067.19	44154067.23	0.2667	0.2421
Mercury	116190-08-20 11:00 G	44158817.85	44158817.96	44158818.07	0.2665	0.0637
Mercury	116203-08-24 05:15 G	44163568.62	44163568.72	44163568.82	0.2664	0.1116
Mercury	116206-02-24 11:58 G	44164483.85	44164484.00	44164484.14	0.2668	0.0197
Venus	116217-03-04 03:05 G	44168509.53	44168509.63	44168509.73	0.2674	0.2084
Mercury	116223-08-19 21:20 G	44170869.32	44170869.39	44170869.46	0.2667	0.2048
Venus	116225-03-01 18:12 G	44171429.13	44171429.26	44171429.38	0.2672	0.1608
Mercury	116236-08-21 15:48 G	44175620.05	44175620.16	44175620.28	0.2665	0.0272
Mercury	116249-08-24 10:17 G	44180370.83	44180370.93	44180371.02	0.2663	0.1492
Mercury	116252-02-25 18:12 G	44181286.11	44181286.26	44181286.41	0.2668	0.0453
Mercury	116269-08-20 02:22 G	44187671.51	44187671.60	44187671.69	0.2667	0.1667
Mercury	116282-08-22 20:51 G	44192422.25	44192422.37	44192422.48	0.2665	0.0120
Mercury	116285-02-22 20:08 G	44193337.25	44193337.34	44193337.44	0.2666	0.2054
Mercury	116295-08-25 15:05 G	44197173.05	44197173.13	44197173.21	0.2663	0.1850
Mercury	116298-02-26 00:27 G	44198088.38	44198088.52	44198088.66	0.2669	0.1087
Mercury	116315-08-22 07:24 G	44204473.71	44204473.81	44204473.90	0.2666	0.1293
Mercury	116328-08-24 01:39 G	44209224.46	44209224.57	44209224.68	0.2665	0.0484
Mercury	116331-02-25 02:22 G	44210139.48	44210139.60	44210139.73	0.2667	0.1438
Mercury	116341-08-26 19:53 G	44213975.27	44213975.33	44213975.39	0.2663	0.2211
Mercury	116344-02-28 06:41 G	44214890.67	44214890.78	44214890.90	0.2669	0.1735
Venus	116346-08-29 10:32 G	44215803.79	44215803.94	44215804.09	0.2661	0.0815
Mercury	116361-08-22 12:12 G	44221275.90	44221276.01	44221276.12	0.2666	0.0908
Mercury	116374-08-25 06:41 G	44226026.67	44226026.78	44226026.88	0.2664	0.0858
Mercury	116377-02-25 08:36 G	44226941.72	44226941.86	44226942.00	0.2667	0.0828
Mercury	116387-08-28 00:56 G	44230777.51	44230777.54	44230777.56	0.2662	0.2577
Mercury	116390-02-28 12:56 G	44231692.98	44231693.04	44231693.11	0.2669	0.2374
Mercury	116394-08-20 22:32 G	44233327.39	44233327.44	44233327.50	0.2668	0.2334
Mercury	116407-08-23 17:15 G	44238078.11	44238078.22	44238078.33	0.2666	0.0540
Mercury	116420-08-25 11:29 G	44242828.88	44242828.98	44242829.08	0.2664	0.1226

Mercury	116423-02-26 14:51 G	44243743.97	44243744.12	44243744.27	0.2668	0.0198
Mercury	116440-08-21 03:34 G	44250129.57	44250129.65	44250129.73	0.2667	0.1952
Mercury	116453-08-23 22:03 G	44254880.31	44254880.42	44254880.53	0.2665	0.0160
Venus	116460-03-05 04:03 G	44257265.57	44257265.67	44257265.77	0.2673	0.2016
Mercury	116466-08-26 16:17 G	44259631.10	44259631.18	44259631.27	0.2663	0.1594
Venus	116468-03-02 18:41 G	44260185.16	44260185.28	44260185.40	0.2671	0.1717
Mercury	116469-02-26 21:05 G	44260546.23	44260546.38	44260546.53	0.2668	0.0427
Mercury	116486-08-22 08:36 G	44266931.77	44266931.86	44266931.95	0.2667	0.1571
Mercury	116499-08-25 02:51 G	44271682.51	44271682.62	44271682.74	0.2665	0.0234
Mercury	116502-02-25 23:15 G	44272597.38	44272597.47	44272597.56	0.2666	0.2072
Mercury	116512-08-27 21:20 G	44276433.31	44276433.39	44276433.46	0.2663	0.1954
Mercury	116515-03-01 03:20 G	44277348.50	44277348.64	44277348.78	0.2668	0.1058
Mercury	116532-08-23 13:24 G	44283733.96	44283734.06	44283734.16	0.2667	0.1190
Mercury	116545-08-26 07:53 G	44288484.72	44288484.83	44288484.94	0.2665	0.0583
Mercury	116548-02-27 05:15 G	44289399.60	44289399.72	44289399.85	0.2666	0.1465
Mercury	116558-08-29 02:08 G	44293235.54	44293235.59	44293235.65	0.2663	0.2320
Mercury	116561-03-01 09:34 G	44294150.78	44294150.90	44294151.01	0.2669	0.1686
Mercury	116565-08-21 23:44 G	44295785.48	44295785.49	44295785.51	0.2668	0.2622
Mercury	116578-08-24 18:27 G	44300536.16	44300536.27	44300536.37	0.2666	0.0820
Venus	116589-08-30 12:27 G	44304559.87	44304560.02	44304560.18	0.2662	0.0757
Mercury	116591-08-27 12:41 G	44305286.93	44305287.03	44305287.14	0.2665	0.0961
Mercury	116594-02-27 11:29 G	44306201.84	44306201.98	44306202.13	0.2667	0.0839
Mercury	116607-03-03 15:48 G	44310953.09	44310953.16	44310953.23	0.2669	0.2326
Mercury	116611-08-24 04:46 G	44312587.64	44312587.70	44312587.76	0.2668	0.2236
Mercury	116624-08-25 23:15 G	44317338.36	44317338.47	44317338.58	0.2666	0.0438
Mercury	116637-08-28 17:44 G	44322089.14	44322089.24	44322089.34	0.2664	0.1327
Mercury	116640-02-29 17:44 G	44323004.09	44323004.24	44323004.39	0.2667	0.0221
Mercury	116657-08-24 09:48 G	44329389.83	44329389.91	44329389.99	0.2668	0.1852
Mercury	116670-08-27 04:17 G	44334140.56	44334140.68	44334140.79	0.2666	0.0087
Mercury	116683-08-29 22:32 G	44338891.36	44338891.44	44338891.53	0.2664	0.1699

Mercury	116686-03-01 23:58 G	44339806.35	44339806.50	44339806.65	0.2667	0.0407
Venus	116703-03-09 04:32 G	44346021.58	44346021.69	44346021.80	0.2672	0.1902
Mercury	116703-08-26 14:36 G	44346192.02	44346192.11	44346192.21	0.2667	0.1470
Venus	116711-03-06 19:24 G	44348941.19	44348941.31	44348941.42	0.2670	0.1797
Mercury	116716-08-28 09:05 G	44350942.77	44350942.88	44350943.00	0.2665	0.0322
Mercury	116719-03-01 02:08 G	44351857.50	44351857.59	44351857.69	0.2665	0.2075
Mercury	116729-08-31 03:34 G	44355693.58	44355693.65	44355693.72	0.2664	0.2062
Mercury	116732-03-03 06:12 G	44356608.62	44356608.76	44356608.89	0.2668	0.1025
Mercury	116749-08-26 19:39 G	44362994.21	44362994.32	44362994.42	0.2667	0.1100
Mercury	116762-08-29 14:08 G	44367744.98	44367745.09	44367745.20	0.2665	0.0689
Mercury	116765-03-01 08:22 G	44368659.73	44368659.85	44368659.97	0.2666	0.1467
Mercury	116775-09-01 08:22 G	44372495.81	44372495.85	44372495.90	0.2663	0.2435
Mercury	116778-03-04 12:27 G	44373410.90	44373411.02	44373411.14	0.2668	0.1659
Mercury	116782-08-25 05:58 G	44375045.71	44375045.75	44375045.78	0.2669	0.2530
Mercury	116795-08-28 00:27 G	44379796.41	44379796.52	44379796.63	0.2667	0.0717
Mercury	116808-08-29 18:56 G	44384547.19	44384547.29	44384547.40	0.2665	0.1065
Mercury	116811-03-02 14:36 G	44385461.97	44385462.11	44385462.25	0.2666	0.0860
Mercury	116824-03-04 18:41 G	44390213.20	44390213.28	44390213.35	0.2668	0.2285
Mercury	116828-08-25 10:46 G	44391847.89	44391847.95	44391848.02	0.2668	0.2145
Venus	116832-09-01 14:22 G	44393315.95	44393316.10	44393316.26	0.2663	0.0716
Mercury	116841-08-28 05:29 G	44396598.62	44396598.73	44396598.84	0.2666	0.0338
Mercury	116854-08-30 23:58 G	44401349.40	44401349.50	44401349.59	0.2665	0.1429
Mercury	116857-03-02 20:36 G	44402264.22	44402264.36	44402264.51	0.2666	0.0253
Mercury	116874-08-26 15:48 G	44408650.08	44408650.16	44408650.25	0.2668	0.1759
Mercury	116887-08-29 10:17 G	44413400.82	44413400.93	44413401.05	0.2666	0.0119
Mercury	116900-09-01 04:46 G	44418151.62	44418151.70	44418151.78	0.2664	0.1794
Mercury	116903-03-05 02:51 G	44419066.47	44419066.62	44419066.77	0.2667	0.0374
Mercury	116920-08-27 20:51 G	44425452.27	44425452.37	44425452.46	0.2668	0.1381
Mercury	116933-08-30 15:20 G	44430203.03	44430203.14	44430203.25	0.2666	0.0414
Mercury	116936-03-02 05:15 G	44431117.63	44431117.72	44431117.81	0.2665	0.2080

Venus	116946-03-10 05:00	G	44434777.59	44434777.71	44434777.82	0.2671	0.1807
Mercury	116946-09-02 09:48	G	44434953.84	44434953.91	44434953.97	0.2664	0.2166
Mercury	116949-03-05 09:05	G	44435868.75	44435868.88	44435869.02	0.2667	0.1009
Venus	116954-03-07 19:39	G	44437697.21	44437697.32	44437697.43	0.2669	0.1915
Mercury	116966-08-29 01:39	G	44442254.47	44442254.57	44442254.68	0.2668	0.0996
Mercury	116979-08-31 20:22	G	44447005.24	44447005.35	44447005.45	0.2666	0.0796
Mercury	116982-03-03 11:29	G	44447919.86	44447919.98	44447920.10	0.2665	0.1472
Mercury	116992-09-02 14:36	G	44451756.08	44451756.11	44451756.14	0.2664	0.2533
Mercury	116995-03-06 15:20	G	44452671.02	44452671.14	44452671.26	0.2668	0.1627
Mercury	116999-08-27 11:58	G	44454305.96	44454306.00	44454306.04	0.2669	0.2434

118TH MILLENNIUM CE

This is a list of transits visible from Earth in the 118th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	117012-08-30 06:41	G	44459056.67	44459056.78	44459056.89	0.2667	0.0614	
Mercury	117025-09-02 01:10	G	44463807.45	44463807.55	44463807.65	0.2665	0.1162	
Mercury	117028-03-04 17:44	G	44464722.10	44464722.24	44464722.38	0.2666	0.0862	
Mercury	117041-03-07 21:34	G	44469473.32	44469473.40	44469473.48	0.2668	0.2255	
Mercury	117045-08-28 17:00	G	44471108.14	44471108.21	44471108.28	0.2669	0.2047	
Mercury	117058-08-31 11:44	G	44475858.87	44475858.99	44475859.10	0.2667	0.0255	
Mercury	117071-09-03 05:58	G	44480609.66	44480609.75	44480609.85	0.2665	0.1533	
Mercury	117074-03-05 23:44	G	44481524.34	44481524.49	44481524.64	0.2666	0.0256	
Venus	117075-09-04 16:32	G	44482072.03	44482072.19	44482072.34	0.2664	0.0672	

Mercury	117091-08-29 21:48 G	44487910.33	44487910.41	44487910.50	0.2668	0.1666
Mercury	117104-09-01 16:32 G	44492661.08	44492661.19	44492661.30	0.2667	0.0136
Mercury	117117-09-04 11:00 G	44497411.88	44497411.96	44497412.04	0.2665	0.1902
Mercury	117120-03-07 05:58 G	44498326.60	44498326.75	44498326.89	0.2666	0.0360
Mercury	117137-08-31 02:51 G	44504712.52	44504712.62	44504712.72	0.2668	0.1284
Mercury	117150-09-02 21:20 G	44509463.28	44509463.39	44509463.51	0.2666	0.0525
Mercury	117153-03-05 08:22 G	44510377.76	44510377.85	44510377.94	0.2665	0.2079
Mercury	117163-09-05 15:48 G	44514214.11	44514214.16	44514214.22	0.2664	0.2273
Mercury	117166-03-08 11:58 G	44515128.87	44515129.00	44515129.14	0.2667	0.0970
Mercury	117183-09-01 07:53 G	44521514.72	44521514.83	44521514.93	0.2668	0.0906
Venus	117189-03-12 05:00 G	44523533.59	44523533.71	44523533.84	0.2670	0.1679
Mercury	117196-09-03 02:22 G	44526265.49	44526265.60	44526265.71	0.2666	0.0888
Venus	117197-03-09 19:53 G	44526453.23	44526453.33	44526453.43	0.2668	0.2044
Mercury	117199-03-06 14:36 G	44527179.99	44527180.11	44527180.23	0.2665	0.1470
Mercury	117209-09-05 20:51 G	44531016.36	44531016.37	44531016.38	0.2664	0.2638
Mercury	117212-03-08 18:12 G	44531931.14	44531931.26	44531931.38	0.2667	0.1594
Mercury	117216-08-29 17:58 G	44533566.20	44533566.25	44533566.31	0.2670	0.2341
Mercury	117229-09-01 12:41 G	44538316.92	44538317.03	44538317.15	0.2668	0.0523
Mercury	117242-09-04 07:10 G	44543067.71	44543067.80	44543067.90	0.2666	0.1266
Mercury	117245-03-06 20:36 G	44543982.22	44543982.36	44543982.50	0.2665	0.0874
Mercury	117258-03-10 00:27 G	44548733.44	44548733.52	44548733.60	0.2668	0.2215
Mercury	117262-08-30 23:00 G	44550368.38	44550368.46	44550368.54	0.2669	0.1953
Mercury	117275-09-02 17:44 G	44555119.12	44555119.24	44555119.35	0.2667	0.0147
Mercury	117288-09-04 12:12 G	44559869.92	44559870.01	44559870.10	0.2665	0.1636
Mercury	117291-03-08 02:51 G	44560784.47	44560784.62	44560784.76	0.2666	0.0277
Mercury	117308-09-01 04:03 G	44567170.58	44567170.67	44567170.76	0.2669	0.1575
Venus	117318-09-06 18:12 G	44570828.11	44570828.26	44570828.42	0.2665	0.0643
Mercury	117321-09-03 22:32 G	44571921.33	44571921.44	44571921.56	0.2667	0.0260
Mercury	117324-03-06 05:29 G	44572835.73	44572835.73	44572835.73	0.2664	0.2663
Mercury	117334-09-06 17:15 G	44576672.14	44576672.22	44576672.29	0.2665	0.2010

Mercury	117337-03-09 08:51 G	44577586.73	44577586.87	44577587.02	0.2666	0.0344
Mercury	117354-09-02 08:51 G	44583972.77	44583972.87	44583972.98	0.2669	0.1191
Mercury	117367-09-05 03:34 G	44588723.54	44588723.65	44588723.76	0.2667	0.0616
Mercury	117370-03-07 11:29 G	44589637.89	44589637.98	44589638.07	0.2664	0.2075
Mercury	117380-09-06 22:03 G	44593474.38	44593474.42	44593474.47	0.2665	0.2381
Mercury	117383-03-10 15:05 G	44594388.99	44594389.13	44594389.27	0.2666	0.0956
Mercury	117387-08-31 19:10 G	44596024.29	44596024.30	44596024.31	0.2670	0.2641
Mercury	117400-09-03 13:53 G	44600774.97	44600775.08	44600775.19	0.2668	0.0800
Mercury	117413-09-06 08:36 G	44605525.75	44605525.86	44605525.96	0.2666	0.0996
Mercury	117416-03-08 17:44 G	44606440.12	44606440.24	44606440.36	0.2664	0.1488
Mercury	117429-03-11 21:05 G	44611191.26	44611191.38	44611191.50	0.2667	0.1561
Venus	117432-03-14 05:29 G	44612289.60	44612289.73	44612289.86	0.2668	0.1562
Mercury	117433-09-01 23:58 G	44612826.45	44612826.50	44612826.56	0.2670	0.2254
Venus	117440-03-11 19:53 G	44615209.24	44615209.33	44615209.42	0.2667	0.2193
Mercury	117446-09-04 18:56 G	44617577.17	44617577.29	44617577.40	0.2668	0.0433
Mercury	117459-09-07 13:24 G	44622327.97	44622328.06	44622328.16	0.2666	0.1367
Mercury	117462-03-09 23:44 G	44623242.35	44623242.49	44623242.63	0.2665	0.0896
Mercury	117475-03-13 03:20 G	44627993.56	44627993.64	44627993.72	0.2667	0.2176
Mercury	117479-09-03 05:00 G	44629628.63	44629628.71	44629628.79	0.2670	0.1868
Mercury	117492-09-04 23:44 G	44634379.38	44634379.49	44634379.61	0.2668	0.0074
Mercury	117505-09-08 18:27 G	44639130.18	44639130.27	44639130.35	0.2666	0.1741
Mercury	117508-03-11 05:58 G	44640044.60	44640044.75	44640044.89	0.2665	0.0296
Mercury	117525-09-04 10:03 G	44646430.82	44646430.92	44646431.01	0.2669	0.1476
Mercury	117538-09-07 04:46 G	44651181.59	44651181.70	44651181.81	0.2667	0.0337
Mercury	117541-03-09 08:36 G	44652095.86	44652095.86	44652095.87	0.2663	0.2658
Mercury	117551-09-09 23:15 G	44655932.41	44655932.47	44655932.54	0.2665	0.2115
Mercury	117554-03-12 11:58 G	44656846.86	44656847.00	44656847.15	0.2665	0.0337
Venus	117561-09-08 20:22 G	44659584.19	44659584.35	44659584.50	0.2666	0.0606
Mercury	117571-09-05 15:05 G	44663233.02	44663233.13	44663233.23	0.2669	0.1086
Mercury	117584-09-07 09:48 G	44667983.80	44667983.91	44667984.02	0.2667	0.0726

Mercury	117587-03-10 14:51 G	44668898.03	44668898.12	44668898.21	0.2663	0.2072
Mercury	117597-09-10 04:17 G	44672734.64	44672734.68	44672734.72	0.2665	0.2482
Mercury	117600-03-12 18:12 G	44673649.12	44673649.26	44673649.39	0.2666	0.0932
Mercury	117604-09-03 01:10 G	44675284.52	44675284.55	44675284.58	0.2671	0.2546
Mercury	117617-09-05 19:53 G	44680035.22	44680035.33	44680035.44	0.2669	0.0708
Mercury	117630-09-08 14:36 G	44684786.01	44684786.11	44684786.22	0.2667	0.1100
Mercury	117633-03-10 20:51 G	44685700.25	44685700.37	44685700.49	0.2664	0.1486
Mercury	117646-03-14 00:12 G	44690451.39	44690451.51	44690451.63	0.2666	0.1539
Mercury	117650-09-04 05:58 G	44692086.69	44692086.75	44692086.82	0.2670	0.2162
Mercury	117663-09-07 00:56 G	44696837.43	44696837.54	44696837.66	0.2668	0.0324
Venus	117675-03-16 05:44 G	44701045.61	44701045.74	44701045.87	0.2668	0.1438
Mercury	117676-09-08 19:39 G	44701588.22	44701588.32	44701588.41	0.2666	0.1474
Mercury	117679-03-12 02:51 G	44702502.49	44702502.62	44702502.76	0.2664	0.0889
Venus	117683-03-13 20:08 G	44703965.27	44703965.34	44703965.42	0.2665	0.2298
Mercury	117692-03-14 06:27 G	44707253.68	44707253.77	44707253.85	0.2666	0.2155
Mercury	117696-09-04 11:00 G	44708888.88	44708888.96	44708889.05	0.2670	0.1768
Mercury	117709-09-08 05:58 G	44713639.63	44713639.75	44713639.86	0.2668	0.0090
Mercury	117722-09-11 00:27 G	44718390.44	44718390.52	44718390.60	0.2666	0.1846
Mercury	117725-03-13 09:05 G	44719304.73	44719304.88	44719305.02	0.2665	0.0290
Mercury	117742-09-06 16:03 G	44725691.07	44725691.17	44725691.27	0.2670	0.1379
Mercury	117755-09-09 10:46 G	44730441.84	44730441.95	44730442.07	0.2668	0.0460
Mercury	117758-03-11 11:58 G	44731355.99	44731356.00	44731356.01	0.2663	0.2650
Mercury	117768-09-11 05:29 G	44735192.67	44735192.73	44735192.79	0.2666	0.2217
Mercury	117771-03-14 15:05 G	44736106.98	44736107.13	44736107.28	0.2665	0.0305
Mercury	117788-09-06 21:05 G	44742493.27	44742493.38	44742493.49	0.2669	0.0991
Mercury	117801-09-10 15:48 G	44747244.05	44747244.16	44747244.27	0.2667	0.0820
Mercury	117804-03-12 17:58 G	44748158.16	44748158.25	44748158.34	0.2663	0.2067
Venus	117804-09-10 22:31 G	44748340.29	44748340.44	44748340.60	0.2667	0.0552
Mercury	117814-09-13 10:17 G	44751994.91	44751994.93	44751994.96	0.2666	0.2589
Mercury	117817-03-15 21:19 G	44752909.25	44752909.39	44752909.52	0.2665	0.0913

Mercury	117821-09-06 07:10 G	44754544.76	44754544.80	44754544.84	0.2671	0.2455
Mercury	117834-09-09 02:07 G	44759295.47	44759295.59	44759295.70	0.2669	0.0612
Mercury	117847-09-11 20:36 G	44764046.26	44764046.36	44764046.47	0.2667	0.1200
Mercury	117850-03-14 00:12 G	44764960.39	44764960.51	44764960.63	0.2663	0.1473
Mercury	117863-03-17 03:19 G	44769711.52	44769711.64	44769711.76	0.2666	0.1526
Mercury	117867-09-07 12:12 G	44771346.94	44771347.01	44771347.08	0.2671	0.2059
Mercury	117880-09-09 06:55 G	44776097.68	44776097.79	44776097.91	0.2669	0.0230
Mercury	117893-09-12 01:39 G	44780848.48	44780848.57	44780848.66	0.2667	0.1573
Mercury	117896-03-14 06:12 G	44781762.62	44781762.76	44781762.90	0.2664	0.0881
Mercury	117909-03-18 09:34 G	44786513.81	44786513.90	44786513.98	0.2666	0.2142
Mercury	117913-09-08 17:15 G	44788149.13	44788149.22	44788149.31	0.2671	0.1670
Venus	117918-03-19 05:43 G	44789801.61	44789801.74	44789801.88	0.2666	0.1322
Venus	117926-03-16 20:07 G	44792721.28	44792721.34	44792721.41	0.2664	0.2439
Mercury	117926-09-11 11:58 G	44792899.89	44792900.00	44792900.12	0.2669	0.0170
Mercury	117939-09-14 06:41 G	44797650.70	44797650.78	44797650.85	0.2666	0.1955
Mercury	117942-03-16 12:12 G	44798564.87	44798565.01	44798565.16	0.2664	0.0293
Mercury	117959-09-09 22:03 G	44804951.32	44804951.42	44804951.52	0.2670	0.1281
Mercury	117972-09-11 17:00 G	44809702.09	44809702.21	44809702.32	0.2668	0.0549
Mercury	117975-03-14 15:19 G	44810616.12	44810616.14	44810616.15	0.2662	0.2636
Mercury	117985-09-14 11:29 G	44814452.93	44814452.98	44814453.04	0.2666	0.2331
Mercury	117988-03-16 18:12 G	44815367.12	44815367.26	44815367.41	0.2664	0.0310

119TH MILLENNIUM CE

This is a list of transits visible from Earth in the 119th millennium CE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
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TRANSIT

TIME

Mercury	118005-09-10 03:05 G	44821753.52	44821753.63	44821753.74	0.2670	0.0895
Mercury	118018-09-12 21:48 G	44826504.30	44826504.41	44826504.52	0.2668	0.0923
Mercury	118021-03-14 21:19 G	44827418.30	44827418.39	44827418.48	0.2662	0.2052
Mercury	118034-03-18 00:27 G	44832169.38	44832169.52	44832169.65	0.2665	0.0903
Mercury	118038-09-08 13:10 G	44833805.00	44833805.05	44833805.10	0.2671	0.2359
Venus	118047-09-13 00:55 G	44837096.38	44837096.54	44837096.69	0.2668	0.0500
Mercury	118051-09-11 08:07 G	44838555.72	44838555.84	44838555.95	0.2670	0.0513
Mercury	118064-09-13 02:51 G	44843306.52	44843306.62	44843306.72	0.2668	0.1303
Mercury	118067-03-16 03:19 G	44844220.52	44844220.64	44844220.76	0.2663	0.1469
Mercury	118080-03-18 06:27 G	44848971.65	44848971.77	44848971.89	0.2665	0.1507
Mercury	118084-09-08 18:12 G	44850607.18	44850607.26	44850607.33	0.2671	0.1968
Mercury	118097-09-11 13:10 G	44855357.93	44855358.05	44855358.16	0.2669	0.0157
Mercury	118110-09-15 07:53 G	44860108.74	44860108.83	44860108.92	0.2667	0.1688
Mercury	118113-03-17 09:19 G	44861022.76	44861022.89	44861023.03	0.2663	0.0883
Mercury	118126-03-20 12:27 G	44865773.94	44865774.02	44865774.11	0.2665	0.2104
Mercury	118130-09-10 23:15 G	44867409.37	44867409.47	44867409.56	0.2671	0.1575
Mercury	118143-09-13 17:58 G	44872160.14	44872160.25	44872160.37	0.2669	0.0266
Mercury	118156-09-15 12:41 G	44876910.96	44876911.03	44876911.11	0.2667	0.2062
Mercury	118159-03-18 15:34 G	44877825.00	44877825.15	44877825.29	0.2664	0.0302
Venus	118161-03-20 05:58 G	44878557.60	44878557.75	44878557.89	0.2665	0.1187
Venus	118169-03-17 20:22 G	44881477.31	44881477.35	44881477.39	0.2663	0.2564
Mercury	118176-09-11 04:03 G	44884211.57	44884211.67	44884211.78	0.2671	0.1186
Mercury	118189-09-13 23:00 G	44888962.35	44888962.46	44888962.57	0.2669	0.0650
Mercury	118192-03-15 18:41 G	44889876.26	44889876.28	44889876.31	0.2662	0.2606
Mercury	118202-09-17 17:43 G	44893713.20	44893713.24	44893713.28	0.2667	0.2437
Mercury	118205-03-19 21:34 G	44894627.25	44894627.40	44894627.54	0.2664	0.0303
Mercury	118209-09-10 14:07 G	44896263.08	44896263.09	44896263.10	0.2672	0.2659
Mercury	118222-09-13 09:05 G	44901013.77	44901013.88	44901013.99	0.2670	0.0793

Mercury	118235-09-16 04:03 G	44905764.56	44905764.67	44905764.77	0.2668	0.1035
Mercury	118238-03-18 00:41 G	44906678.44	44906678.53	44906678.62	0.2662	0.2030
Mercury	118251-03-21 03:34 G	44911429.52	44911429.65	44911429.79	0.2664	0.0905
Mercury	118255-09-11 19:10 G	44913065.24	44913065.30	44913065.36	0.2672	0.2268
Mercury	118268-09-13 14:07 G	44917815.98	44917816.09	44917816.21	0.2670	0.0402
Mercury	118281-09-16 09:05 G	44922566.78	44922566.88	44922566.97	0.2668	0.1421
Mercury	118284-03-18 06:41 G	44923480.66	44923480.78	44923480.90	0.2662	0.1452
Venus	118290-09-15 03:05 G	44925852.48	44925852.63	44925852.79	0.2669	0.0436
Mercury	118297-03-21 09:48 G	44928231.79	44928231.91	44928232.03	0.2664	0.1497
Mercury	118301-09-13 00:12 G	44929867.42	44929867.51	44929867.59	0.2672	0.1869
Mercury	118314-09-15 19:10 G	44934618.18	44934618.30	44934618.41	0.2670	0.0057
Mercury	118327-09-18 13:53 G	44939369.00	44939369.08	44939369.17	0.2668	0.1791
Mercury	118330-03-20 12:41 G	44940282.89	44940283.03	44940283.17	0.2663	0.0880
Mercury	118343-03-23 15:48 G	44945034.07	44945034.16	44945034.25	0.2665	0.2099
Mercury	118347-09-14 05:00 G	44946669.62	44946669.71	44946669.81	0.2671	0.1483
Mercury	118360-09-16 00:12 G	44951420.39	44951420.51	44951420.62	0.2669	0.0380
Mercury	118373-09-18 18:55 G	44956171.22	44956171.29	44956171.35	0.2667	0.2173
Mercury	118376-03-20 18:41 G	44957085.14	44957085.28	44957085.43	0.2663	0.0296
Mercury	118393-09-14 10:03 G	44963471.82	44963471.92	44963472.03	0.2671	0.1086
Venus	118404-03-22 06:12 G	44967313.61	44967313.76	44967313.90	0.2664	0.1075
Mercury	118406-09-17 05:00 G	44968222.60	44968222.71	44968222.82	0.2669	0.0761
Mercury	118409-03-18 22:03 G	44969136.39	44969136.42	44969136.45	0.2661	0.2583
Mercury	118419-09-19 23:43 G	44972973.46	44972973.49	44972973.52	0.2667	0.2545
Mercury	118422-03-22 00:55 G	44973887.39	44973887.54	44973887.68	0.2663	0.0308
Mercury	118426-09-12 20:07 G	44975523.31	44975523.34	44975523.37	0.2673	0.2564
Mercury	118439-09-15 15:05 G	44980274.02	44980274.13	44980274.25	0.2671	0.0695
Mercury	118452-09-17 10:03 G	44985024.82	44985024.92	44985025.02	0.2669	0.1140
Mercury	118455-03-20 04:03 G	44985938.58	44985938.67	44985938.77	0.2661	0.2010
Mercury	118468-03-22 06:55 G	44990689.65	44990689.79	44990689.93	0.2664	0.0897
Mercury	118472-09-13 01:10 G	44992325.48	44992325.55	44992325.61	0.2672	0.2166

Mercury	118485-09-15 20:07 G	44997076.23	44997076.34	44997076.46	0.2671	0.0301
Mercury	118498-09-18 15:05 G	45001827.03	45001827.13	45001827.22	0.2669	0.1524
Mercury	118501-03-21 10:03 G	45002740.80	45002740.92	45002741.04	0.2662	0.1437
Mercury	118514-03-24 12:55 G	45007491.92	45007492.04	45007492.16	0.2664	0.1492
Mercury	118518-09-15 06:12 G	45009127.67	45009127.76	45009127.84	0.2672	0.1770
Mercury	118531-09-18 01:10 G	45013878.44	45013878.55	45013878.67	0.2670	0.0093
Venus	118533-09-17 05:29 G	45014608.57	45014608.73	45014608.88	0.2670	0.0394
Mercury	118544-09-19 19:53 G	45018629.25	45018629.33	45018629.41	0.2668	0.1906
Mercury	118547-03-22 16:03 G	45019543.04	45019543.17	45019543.31	0.2662	0.0860
Mercury	118560-03-24 18:55 G	45024294.20	45024294.29	45024294.38	0.2664	0.2080
Mercury	118564-09-15 11:15 G	45025929.87	45025929.97	45025930.07	0.2672	0.1375
Mercury	118577-09-18 06:12 G	45030680.64	45030680.76	45030680.87	0.2670	0.0479
Mercury	118590-09-21 00:55 G	45035431.48	45035431.54	45035431.60	0.2668	0.2280
Mercury	118593-03-22 22:17 G	45036345.28	45036345.43	45036345.57	0.2663	0.0285
Mercury	118610-09-17 16:03 G	45042732.07	45042732.17	45042732.28	0.2672	0.0987
Mercury	118623-09-20 11:00 G	45047482.86	45047482.96	45047483.07	0.2670	0.0871
Mercury	118626-03-22 01:39 G	45048396.53	45048396.57	45048396.60	0.2660	0.2559
Mercury	118636-09-22 05:58 G	45052233.74	45052233.75	45052233.75	0.2667	0.2659
Mercury	118639-03-25 04:17 G	45053147.53	45053147.68	45053147.82	0.2663	0.0316
Mercury	118643-09-16 02:07 G	45054783.55	45054783.59	45054783.63	0.2673	0.2469
Venus	118647-03-25 05:58 G	45056069.60	45056069.75	45056069.90	0.2663	0.0917
Mercury	118656-09-17 21:05 G	45059534.27	45059534.38	45059534.50	0.2671	0.0591
Mercury	118669-09-20 16:03 G	45064285.07	45064285.17	45064285.27	0.2669	0.1243
Mercury	118672-03-22 07:24 G	45065198.72	45065198.81	45065198.91	0.2661	0.2003
Mercury	118685-03-25 10:03 G	45069949.79	45069949.92	45069950.06	0.2663	0.0887
Mercury	118689-09-16 07:10 G	45071585.72	45071585.80	45071585.87	0.2673	0.2077
Mercury	118702-09-20 02:07 G	45076336.47	45076336.59	45076336.71	0.2671	0.0203
Mercury	118715-09-22 21:05 G	45081087.29	45081087.38	45081087.47	0.2669	0.1628
Mercury	118718-03-24 13:39 G	45082000.95	45082001.07	45082001.19	0.2661	0.1416
Mercury	118731-03-27 16:17 G	45086752.06	45086752.18	45086752.30	0.2663	0.1477

Mercury	118735-09-18 12:12 G	45088387.92	45088388.01	45088388.10	0.2673	0.1673
Mercury	118748-09-20 07:10 G	45093138.68	45093138.80	45093138.91	0.2671	0.0193
Mercury	118761-09-23 02:07 G	45097889.51	45097889.59	45097889.66	0.2668	0.2007
Mercury	118764-03-24 19:39 G	45098803.18	45098803.32	45098803.45	0.2662	0.0845
Venus	118776-09-19 07:53 G	45103364.67	45103364.83	45103364.98	0.2672	0.0331
Mercury	118777-03-27 22:17 G	45103554.34	45103554.43	45103554.52	0.2664	0.2073
Mercury	118781-09-18 17:00 G	45105190.11	45105190.21	45105190.32	0.2672	0.1277
Mercury	118794-09-21 12:12 G	45109940.89	45109941.01	45109941.12	0.2670	0.0582
Mercury	118807-09-24 06:55 G	45114691.75	45114691.79	45114691.84	0.2668	0.2391
Mercury	118810-03-26 01:24 G	45115605.42	45115605.56	45115605.71	0.2662	0.0283
Mercury	118827-09-19 22:03 G	45121992.31	45121992.42	45121992.53	0.2672	0.0883
Mercury	118840-09-21 17:15 G	45126743.11	45126743.22	45126743.32	0.2670	0.0972
Mercury	118843-03-24 05:00 G	45127656.67	45127656.71	45127656.76	0.2660	0.2534
Mercury	118856-03-26 07:24 G	45132407.67	45132407.81	45132407.96	0.2662	0.0317
Mercury	118860-09-17 07:53 G	45134043.78	45134043.83	45134043.88	0.2674	0.2379
Mercury	118873-09-20 03:05 G	45138794.52	45138794.63	45138794.75	0.2672	0.0491
Mercury	118886-09-22 22:03 G	45143545.33	45143545.42	45143545.52	0.2670	0.1356
Mercury	118889-03-24 11:00 G	45144458.87	45144458.96	45144459.06	0.2660	0.1967
Venus	118890-03-26 05:58 G	45144825.60	45144825.75	45144825.90	0.2662	0.0799
Mercury	118902-03-28 13:24 G	45149209.93	45149210.06	45149210.20	0.2662	0.0893
Mercury	118906-09-19 12:55 G	45150845.97	45150846.04	45150846.12	0.2673	0.1974
Mercury	118919-09-22 08:07 G	45155596.72	45155596.84	45155596.96	0.2671	0.0102
Mercury	118932-09-24 03:05 G	45160347.54	45160347.63	45160347.72	0.2669	0.1731
Mercury	118935-03-26 17:00 G	45161261.09	45161261.21	45161261.33	0.2661	0.1408
Mercury	118948-03-28 19:39 G	45166012.20	45166012.32	45166012.44	0.2663	0.1482
Mercury	118952-09-19 17:58 G	45167648.16	45167648.25	45167648.34	0.2673	0.1581
Mercury	118965-09-22 13:10 G	45172398.93	45172399.05	45172399.17	0.2671	0.0295
Mercury	118978-09-25 08:07 G	45177149.77	45177149.84	45177149.91	0.2669	0.2120
Mercury	118981-03-26 23:00 G	45178063.32	45178063.46	45178063.59	0.2661	0.0839
Mercury	118994-03-30 01:39 G	45182814.48	45182814.57	45182814.66	0.2663	0.2060

Mercury 118998-09-20 23:00 G 45184450.36 45184450.46 45184450.57 0.2673 0.1181

120TH MILLENNIUM CE

This is a list of transits visible from Earth in the 120th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	119011-09-24 18:12	G	45189201.15	45189201.26	45189201.37	0.2671	0.0684	
Venus	119019-09-22 10:17	G	45192120.77	45192120.93	45192121.08	0.2673	0.0298	
Mercury	119024-09-26 13:10	G	45193952.01	45193952.05	45193952.08	0.2669	0.2498	
Mercury	119027-03-29 04:46	G	45194865.56	45194865.70	45194865.85	0.2661	0.0283	
Mercury	119040-03-31 07:39	G	45199616.81	45199616.82	45199616.83	0.2664	0.2648	
Mercury	119044-09-22 04:03	G	45201252.56	45201252.67	45201252.78	0.2672	0.0790	
Mercury	119057-09-24 23:15	G	45206003.36	45206003.47	45206003.57	0.2671	0.1070	
Mercury	119060-03-26 08:36	G	45206916.82	45206916.86	45206916.91	0.2659	0.2499	
Mercury	119073-03-29 11:00	G	45211667.82	45211667.96	45211668.10	0.2662	0.0323	
Mercury	119077-09-20 13:53	G	45213304.02	45213304.08	45213304.14	0.2674	0.2284	
Mercury	119090-09-23 09:05	G	45218054.76	45218054.88	45218055.00	0.2672	0.0385	
Mercury	119103-09-27 04:03	G	45222805.58	45222805.67	45222805.77	0.2670	0.1459	
Mercury	119106-03-28 14:36	G	45223719.01	45223719.11	45223719.20	0.2660	0.1943	
Mercury	119119-03-31 17:00	G	45228470.07	45228470.21	45228470.34	0.2662	0.0899	
Mercury	119123-09-22 18:55	G	45230106.21	45230106.29	45230106.37	0.2674	0.1882	
Venus	119133-03-29 05:43	G	45233581.58	45233581.74	45233581.89	0.2660	0.0635	
Mercury	119136-09-24 14:07	G	45234856.97	45234857.09	45234857.21	0.2672	0.0020	
Mercury	119149-09-27 09:05	G	45239607.80	45239607.88	45239607.96	0.2670	0.1845	

Mercury	119152-03-28 20:36 G	45240521.23	45240521.36	45240521.48	0.2660	0.1386
Mercury	119165-03-31 23:00 G	45245272.34	45245272.46	45245272.58	0.2662	0.1473
Mercury	119169-09-22 23:58 G	45246908.40	45246908.50	45246908.60	0.2674	0.1483
Mercury	119182-09-25 19:10 G	45251659.18	45251659.30	45251659.41	0.2671	0.0398
Mercury	119195-09-28 14:07 G	45256410.03	45256410.09	45256410.15	0.2670	0.2226
Mercury	119198-03-30 02:22 G	45257323.47	45257323.60	45257323.74	0.2660	0.0822
Mercury	119211-04-02 05:00 G	45262074.62	45262074.71	45262074.80	0.2663	0.2058
Mercury	119215-09-24 05:00 G	45263710.60	45263710.71	45263710.81	0.2673	0.1088
Mercury	119228-09-26 00:12 G	45268461.40	45268461.51	45268461.62	0.2671	0.0788
Mercury	119241-09-28 19:10 G	45273212.28	45273212.30	45273212.32	0.2669	0.2609
Mercury	119244-03-30 08:22 G	45274125.71	45274125.85	45274126.00	0.2661	0.0253
Mercury	119248-09-21 14:36 G	45275762.09	45275762.11	45275762.14	0.2675	0.2596
Mercury	119257-04-02 10:46 G	45278876.94	45278876.95	45278876.97	0.2663	0.2637
Mercury	119261-09-24 10:03 G	45280512.81	45280512.92	45280513.03	0.2673	0.0679
Venus	119262-09-23 12:27 G	45280876.87	45280877.02	45280877.18	0.2674	0.0258
Mercury	119274-09-27 05:00 G	45285263.61	45285263.71	45285263.82	0.2671	0.1177
Mercury	119277-03-28 12:12 G	45286176.96	45286177.01	45286177.06	0.2659	0.2480
Mercury	119290-03-31 14:22 G	45290927.96	45290928.10	45290928.24	0.2661	0.0317
Mercury	119294-09-22 19:39 G	45292564.26	45292564.32	45292564.39	0.2675	0.2193
Mercury	119307-09-26 15:05 G	45297315.01	45297315.13	45297315.24	0.2673	0.0297
Mercury	119320-09-28 10:03 G	45302065.83	45302065.92	45302066.02	0.2671	0.1564
Mercury	119323-03-30 18:12 G	45302979.16	45302979.26	45302979.35	0.2659	0.1922
Mercury	119336-04-01 20:22 G	45307730.21	45307730.35	45307730.48	0.2661	0.0892
Mercury	119340-09-24 00:41 G	45309366.45	45309366.53	45309366.62	0.2675	0.1791
Mercury	119353-09-26 20:07 G	45314117.22	45314117.34	45314117.45	0.2672	0.0141
Mercury	119366-09-29 15:05 G	45318868.05	45318868.13	45318868.21	0.2670	0.1948
Mercury	119369-03-31 00:12 G	45319781.38	45319781.51	45319781.63	0.2659	0.1359
Venus	119376-03-30 05:15 G	45322337.56	45322337.72	45322337.88	0.2659	0.0473
Mercury	119382-04-03 02:22 G	45324532.48	45324532.60	45324532.72	0.2662	0.1470
Mercury	119386-09-25 05:43 G	45326168.64	45326168.74	45326168.84	0.2674	0.1386

Mercury	119399-09-28 00:55	G	45330919.43	45330919.54	45330919.66	0.2672	0.0509
Mercury	119412-09-30 20:07	G	45335670.29	45335670.34	45335670.39	0.2670	0.2332
Mercury	119415-04-02 05:58	G	45336583.62	45336583.75	45336583.89	0.2660	0.0795
Mercury	119428-04-04 08:22	G	45341334.76	45341334.85	45341334.94	0.2662	0.2051
Mercury	119432-09-26 10:46	G	45342970.85	45342970.95	45342971.06	0.2674	0.0985
Mercury	119445-09-29 05:58	G	45347721.64	45347721.75	45347721.86	0.2672	0.0895
Mercury	119461-04-02 11:58	G	45353385.86	45353386.00	45353386.14	0.2660	0.0238
Mercury	119465-09-24 20:36	G	45355022.32	45355022.36	45355022.39	0.2675	0.2506
Mercury	119474-04-05 14:22	G	45358137.08	45358137.10	45358137.11	0.2662	0.2637
Mercury	119478-09-27 15:48	G	45359773.05	45359773.16	45359773.28	0.2674	0.0591
Mercury	119491-09-30 11:00	G	45364523.86	45364523.96	45364524.07	0.2671	0.1289
Mercury	119494-03-31 15:48	G	45365437.11	45365437.16	45365437.22	0.2658	0.2439
Venus	119505-09-26 15:05	G	45369632.98	45369633.13	45369633.29	0.2675	0.0188
Mercury	119507-04-04 17:58	G	45370188.10	45370188.25	45370188.39	0.2660	0.0341
Mercury	119511-09-27 01:38	G	45371824.50	45371824.57	45371824.64	0.2675	0.2098
Mercury	119524-09-28 20:50	G	45376575.26	45376575.37	45376575.49	0.2673	0.0198
Mercury	119537-10-01 16:02	G	45381326.08	45381326.17	45381326.26	0.2671	0.1670
Mercury	119540-04-01 21:48	G	45382239.31	45382239.41	45382239.51	0.2658	0.1895
Mercury	119553-04-04 23:43	G	45386990.36	45386990.49	45386990.63	0.2661	0.0895
Mercury	119557-09-27 06:41	G	45388626.69	45388626.78	45388626.87	0.2675	0.1692
Mercury	119570-09-30 01:53	G	45393377.47	45393377.58	45393377.70	0.2673	0.0210
Mercury	119583-10-02 21:05	G	45398128.31	45398128.38	45398128.45	0.2671	0.2055
Mercury	119586-04-03 03:34	G	45399041.53	45399041.65	45399041.77	0.2659	0.1339
Mercury	119599-04-06 05:43	G	45403792.62	45403792.74	45403792.86	0.2661	0.1473
Mercury	119603-09-28 11:43	G	45405428.89	45405428.99	45405429.09	0.2675	0.1289
Mercury	119616-09-30 06:55	G	45410179.68	45410179.79	45410179.91	0.2673	0.0608
Venus	119619-04-02 05:00	G	45411093.55	45411093.71	45411093.87	0.2658	0.0329
Mercury	119629-10-03 02:07	G	45414930.55	45414930.59	45414930.63	0.2670	0.2442
Mercury	119632-04-03 09:34	G	45415843.76	45415843.90	45415844.03	0.2659	0.0780
Mercury	119645-04-06 11:43	G	45420594.90	45420594.99	45420595.08	0.2661	0.2045

Mercury	119649-09-28 16:46 G	45422231.09	45422231.20	45422231.31	0.2674	0.0886
Mercury	119662-10-01 11:58 G	45426981.90	45426982.00	45426982.11	0.2672	0.0999
Mercury	119678-04-04 15:34 G	45432646.00	45432646.15	45432646.29	0.2660	0.0223
Mercury	119682-09-27 02:22 G	45434282.55	45434282.60	45434282.65	0.2676	0.2407
Mercury	119691-04-07 17:43 G	45437397.22	45437397.24	45437397.26	0.2662	0.2622
Mercury	119695-09-29 21:48 G	45439033.29	45439033.41	45439033.53	0.2674	0.0482
Mercury	119708-10-02 17:00 G	45443784.11	45443784.21	45443784.31	0.2672	0.1385
Mercury	119711-04-03 19:38 G	45444697.26	45444697.32	45444697.37	0.2658	0.2408
Mercury	119724-04-05 21:19 G	45449448.25	45449448.39	45449448.54	0.2660	0.0355
Mercury	119728-09-28 07:24 G	45451084.73	45451084.81	45451084.89	0.2676	0.2001
Mercury	119741-10-01 02:50 G	45455835.50	45455835.62	45455835.74	0.2674	0.0087
Venus	119748-09-27 17:29 G	45458389.08	45458389.23	45458389.39	0.2676	0.0160
Mercury	119754-10-03 22:02 G	45460586.34	45460586.42	45460586.51	0.2672	0.1780
Mercury	119757-04-04 01:24 G	45461499.46	45461499.56	45461499.66	0.2658	0.1851
Mercury	119770-04-07 03:19 G	45466250.51	45466250.64	45466250.78	0.2660	0.0920
Mercury	119774-09-29 12:26 G	45467886.93	45467887.02	45467887.12	0.2676	0.1594
Mercury	119787-10-02 07:53 G	45472637.72	45472637.83	45472637.95	0.2673	0.0318
Mercury	119800-10-05 03:05 G	45477388.56	45477388.63	45477388.70	0.2671	0.2167
Mercury	119803-04-06 07:24 G	45478301.68	45478301.81	45478301.93	0.2658	0.1306
Mercury	119816-04-08 09:19 G	45483052.77	45483052.89	45483053.01	0.2661	0.1482
Mercury	119820-09-30 17:29 G	45484689.13	45484689.23	45484689.34	0.2675	0.1190
Mercury	119833-10-03 12:55 G	45489439.93	45489440.04	45489440.15	0.2673	0.0705
Mercury	119846-10-06 08:07 G	45494190.81	45494190.84	45494190.87	0.2671	0.2555
Mercury	119849-04-06 13:10 G	45495103.92	45495104.05	45495104.19	0.2659	0.0752
Venus	119862-04-04 04:46 G	45499849.54	45499849.70	45499849.86	0.2656	0.0189
Mercury	119862-04-09 15:19 G	45499855.05	45499855.14	45499855.23	0.2661	0.2056
Mercury	119866-10-01 22:31 G	45501491.33	45501491.44	45501491.56	0.2675	0.0792
Mercury	119879-10-04 17:58 G	45506242.14	45506242.25	45506242.36	0.2673	0.1104
Mercury	119895-04-07 19:10 G	45511906.16	45511906.30	45511906.44	0.2659	0.0206
Mercury	119899-09-30 08:07 G	45513542.78	45513542.84	45513542.90	0.2677	0.2315

Mercury	119908-04-10 21:05 G	45516657.36	45516657.38	45516657.40	0.2661	0.2621
Mercury	119912-10-03 03:48 G	45518293.54	45518293.66	45518293.77	0.2674	0.0398
Mercury	119925-10-05 23:00 G	45523044.36	45523044.46	45523044.56	0.2672	0.1493
Mercury	119928-04-05 23:14 G	45523957.41	45523957.47	45523957.54	0.2657	0.2363
Mercury	119941-04-09 00:55 G	45528708.40	45528708.54	45528708.68	0.2659	0.0370
Mercury	119945-10-01 13:10 G	45530344.97	45530345.05	45530345.14	0.2676	0.1907
Mercury	119958-10-04 08:50 G	45535095.75	45535095.87	45535095.98	0.2674	0.0097
Mercury	119971-10-07 04:02 G	45539846.59	45539846.67	45539846.75	0.2672	0.1885
Mercury	119974-04-07 05:14 G	45540759.62	45540759.72	45540759.82	0.2657	0.1811
Mercury	119987-04-10 06:55 G	45545510.66	45545510.79	45545510.92	0.2660	0.0930
Venus	119991-09-30 20:07 G	45547145.19	45547145.34	45547145.50	0.2678	0.0115
Mercury	119991-10-02 18:26 G	45547147.17	45547147.27	45547147.36	0.2676	0.1498

121ST MILLENNIUM CE

This is a list of transits visible from Earth in the 121st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	120004-10-04 13:53 G	45551897.96	45551898.08	45551898.19	0.2674	0.0427		
Mercury	120017-10-07 09:05 G	45556648.82	45556648.88	45556648.94	0.2672	0.2277		
Mercury	120020-04-07 11:00 G	45557561.84	45557561.96	45557562.09	0.2658	0.1269		
Mercury	120033-04-10 12:55 G	45562312.92	45562313.04	45562313.15	0.2660	0.1495		
Mercury	120037-10-02 23:29 G	45563949.37	45563949.48	45563949.59	0.2676	0.1088		
Mercury	120050-10-05 18:55 G	45568700.17	45568700.29	45568700.40	0.2674	0.0821		
Mercury	120063-10-08 14:07 G	45573451.08	45573451.09	45573451.09	0.2672	0.2666		

Mercury	120066-04-08 17:00 G	45574364.07	45574364.21	45574364.34	0.2658	0.0727
Mercury	120070-10-01 08:50 G	45576000.85	45576000.87	45576000.89	0.2677	0.2631
Mercury	120079-04-11 18:41 G	45579115.19	45579115.28	45579115.37	0.2660	0.2062
Mercury	120083-10-04 04:31 G	45580751.57	45580751.69	45580751.80	0.2675	0.0688
Mercury	120096-10-05 23:58 G	45585502.39	45585502.50	45585502.60	0.2673	0.1215
Venus	120105-04-06 04:31 G	45588605.53	45588605.69	45588605.85	0.2655	0.0048
Mercury	120112-04-09 22:46 G	45591166.31	45591166.45	45591166.59	0.2658	0.0170
Mercury	120116-10-02 13:53 G	45592803.02	45592803.08	45592803.15	0.2677	0.2218
Mercury	120125-04-13 00:41 G	45595917.51	45595917.53	45595917.55	0.2661	0.2626
Mercury	120129-10-05 09:34 G	45597553.78	45597553.90	45597554.02	0.2675	0.0279
Mercury	120142-10-08 05:00 G	45602304.61	45602304.71	45602304.80	0.2673	0.1607
Mercury	120145-04-08 03:05 G	45603217.56	45603217.63	45603217.70	0.2656	0.2318
Mercury	120158-04-11 04:31 G	45607968.55	45607968.69	45607968.84	0.2659	0.0393
Mercury	120162-10-03 19:10 G	45609605.21	45609605.30	45609605.38	0.2677	0.1808
Mercury	120175-10-06 14:36 G	45614355.99	45614356.11	45614356.23	0.2675	0.0120
Mercury	120188-10-08 10:02 G	45619106.84	45619106.92	45619106.99	0.2673	0.2002
Mercury	120191-04-09 08:50 G	45620019.77	45620019.87	45620019.98	0.2657	0.1780
Mercury	120204-04-12 10:31 G	45624770.81	45624770.94	45624771.07	0.2659	0.0942
Mercury	120208-10-05 00:12 G	45626407.41	45626407.51	45626407.61	0.2677	0.1400
Mercury	120221-10-07 19:38 G	45631158.21	45631158.32	45631158.44	0.2674	0.0525
Venus	120234-10-02 22:46 G	45635901.30	45635901.45	45635901.61	0.2679	0.0072
Mercury	120234-10-10 15:05 G	45635909.08	45635909.13	45635909.18	0.2672	0.2392
Mercury	120237-04-10 14:50 G	45636821.99	45636822.12	45636822.24	0.2657	0.1244
Mercury	120250-04-13 16:17 G	45641573.07	45641573.18	45641573.30	0.2659	0.1494
Mercury	120254-10-06 05:14 G	45643209.61	45643209.72	45643209.83	0.2676	0.0991
Mercury	120267-10-09 00:41 G	45647960.42	45647960.53	45647960.64	0.2674	0.0916
Mercury	120283-04-11 20:36 G	45653624.23	45653624.36	45653624.50	0.2657	0.0685
Mercury	120287-10-04 14:36 G	45655261.08	45655261.11	45655261.15	0.2678	0.2537
Mercury	120296-04-13 22:17 G	45658375.35	45658375.43	45658375.52	0.2660	0.2069
Mercury	120300-10-07 10:17 G	45660011.82	45660011.93	45660012.05	0.2676	0.0581

Mercury	120313-10-10 05:43 G	45664762.64	45664762.74	45664762.84	0.2674	0.1324
Mercury	120329-04-13 02:36 G	45670426.46	45670426.61	45670426.75	0.2658	0.0156
Mercury	120333-10-05 19:53 G	45672063.25	45672063.33	45672063.40	0.2678	0.2122
Mercury	120342-04-16 04:17 G	45675177.67	45675177.68	45675177.70	0.2660	0.2638
Mercury	120346-10-08 15:19 G	45676814.03	45676814.14	45676814.26	0.2676	0.0190
Venus	120348-04-08 04:02 G	45677361.51	45677361.67	45677361.83	0.2654	0.0126
Mercury	120359-10-11 10:46 G	45681564.87	45681564.95	45681565.04	0.2674	0.1722
Mercury	120362-04-11 06:55 G	45682477.72	45682477.79	45682477.86	0.2656	0.2273
Mercury	120375-04-14 08:22 G	45687228.71	45687228.85	45687228.99	0.2658	0.0409
Mercury	120379-10-07 00:55 G	45688865.45	45688865.54	45688865.63	0.2677	0.1712
Mercury	120392-10-08 20:36 G	45693616.24	45693616.36	45693616.47	0.2675	0.0245
Mercury	120405-10-11 15:48 G	45698367.09	45698367.16	45698367.23	0.2673	0.2113
Mercury	120408-04-11 12:41 G	45699279.93	45699280.03	45699280.14	0.2656	0.1737
Mercury	120421-04-14 14:22 G	45704030.96	45704031.10	45704031.23	0.2658	0.0967
Mercury	120425-10-07 05:58 G	45705667.65	45705667.75	45705667.85	0.2677	0.1301
Mercury	120438-10-10 01:38 G	45710418.45	45710418.57	45710418.68	0.2675	0.0631
Mercury	120451-10-12 20:50 G	45715169.34	45715169.37	45715169.41	0.2673	0.2504
Mercury	120454-04-12 18:41 G	45716082.15	45716082.28	45716082.40	0.2656	0.1192
Mercury	120467-04-15 20:07 G	45720833.23	45720833.34	45720833.46	0.2659	0.1524
Mercury	120471-10-08 11:00 G	45722469.85	45722469.96	45722470.07	0.2677	0.0888
Venus	120477-10-04 01:38 G	45724657.41	45724657.57	45724657.72	0.2680	0.0040
Mercury	120484-10-10 06:41 G	45727220.67	45727220.78	45727220.89	0.2675	0.1033
Mercury	120500-04-14 00:26 G	45732884.38	45732884.52	45732884.65	0.2657	0.0661
Mercury	120504-10-06 20:22 G	45734521.31	45734521.35	45734521.40	0.2679	0.2443
Mercury	120513-04-17 01:53 G	45737635.50	45737635.58	45737635.67	0.2659	0.2079
Mercury	120517-10-09 16:02 G	45739272.06	45739272.17	45739272.29	0.2676	0.0492
Mercury	120530-10-12 11:43 G	45744022.89	45744022.99	45744023.09	0.2674	0.1426
Mercury	120546-04-15 06:12 G	45749686.62	45749686.76	45749686.90	0.2657	0.0121
Mercury	120550-10-08 01:24 G	45751323.49	45751323.56	45751323.64	0.2678	0.2032
Mercury	120559-04-18 07:53 G	45754437.82	45754437.83	45754437.84	0.2659	0.2638

Mercury	120563-10-10 21:19 G	45756074.27	45756074.39	45756074.51	0.2676	0.0106
Mercury	120576-10-12 16:46 G	45760825.11	45760825.20	45760825.28	0.2674	0.1822
Mercury	120579-04-13 10:46 G	45761737.88	45761737.95	45761738.03	0.2655	0.2218
Venus	120591-04-10 03:34 G	45766117.49	45766117.65	45766117.81	0.2652	0.0275
Mercury	120592-04-15 12:12 G	45766488.87	45766489.01	45766489.15	0.2657	0.0438
Mercury	120596-10-08 06:41 G	45768125.68	45768125.78	45768125.87	0.2678	0.1611
Mercury	120609-10-12 02:22 G	45772876.48	45772876.60	45772876.72	0.2676	0.0331
Mercury	120622-10-14 21:48 G	45777627.34	45777627.41	45777627.47	0.2674	0.2216
Mercury	120625-04-14 16:46 G	45778540.09	45778540.20	45778540.30	0.2655	0.1686
Mercury	120638-04-17 17:58 G	45783291.12	45783291.25	45783291.38	0.2658	0.0991
Mercury	120642-10-10 11:43 G	45784927.89	45784927.99	45784928.10	0.2678	0.1197
Mercury	120655-10-13 07:24 G	45789678.70	45789678.81	45789678.92	0.2676	0.0736
Mercury	120668-10-15 02:50 G	45794429.60	45794429.62	45794429.64	0.2673	0.2609
Mercury	120671-04-15 22:31 G	45795342.31	45795342.44	45795342.56	0.2656	0.1160
Mercury	120684-04-17 23:43 G	45800093.38	45800093.49	45800093.61	0.2658	0.1539
Mercury	120688-10-10 16:46 G	45801730.09	45801730.20	45801730.32	0.2677	0.0796
Mercury	120701-10-14 12:26 G	45806480.91	45806481.02	45806481.13	0.2675	0.1132
Mercury	120717-04-17 04:17 G	45812144.54	45812144.68	45812144.82	0.2656	0.0619
Venus	120720-10-07 04:17 G	45813413.52	45813413.68	45813413.84	0.2681	0.0062
Mercury	120721-10-10 02:07 G	45813781.54	45813781.59	45813781.64	0.2679	0.2354
Mercury	120730-04-20 05:43 G	45816895.65	45816895.74	45816895.82	0.2658	0.2093
Mercury	120734-10-12 22:02 G	45818532.30	45818532.42	45818532.53	0.2677	0.0398
Mercury	120747-10-15 17:29 G	45823283.14	45823283.23	45823283.33	0.2675	0.1534
Mercury	120763-04-18 10:02 G	45828946.78	45828946.92	45828947.06	0.2656	0.0085
Mercury	120767-10-11 07:24 G	45830583.72	45830583.81	45830583.89	0.2679	0.1933
Mercury	120776-04-20 11:29 G	45833697.97	45833697.98	45833697.99	0.2659	0.2643
Mercury	120780-10-13 03:05 G	45835334.51	45835334.63	45835334.75	0.2677	0.0067
Mercury	120793-10-15 22:31 G	45840085.36	45840085.44	45840085.52	0.2675	0.1928
Mercury	120796-04-15 14:36 G	45840998.04	45840998.11	45840998.19	0.2654	0.2181
Mercury	120809-04-18 15:48 G	45845749.02	45845749.16	45845749.30	0.2657	0.0460

Mercury	120813-10-11 12:26 G	45847385.92	45847386.02	45847386.12	0.2679	0.1520
Mercury	120826-10-14 08:07 G	45852136.72	45852136.84	45852136.96	0.2676	0.0433
Venus	120834-04-12 03:05 G	45854873.47	45854873.63	45854873.79	0.2651	0.0439
Mercury	120839-10-17 03:34 G	45856887.60	45856887.65	45856887.71	0.2674	0.2326
Mercury	120842-04-16 20:36 G	45857800.25	45857800.36	45857800.46	0.2655	0.1658
Mercury	120855-04-19 21:34 G	45862551.27	45862551.40	45862551.53	0.2657	0.1000
Mercury	120859-10-12 17:29 G	45864188.12	45864188.23	45864188.34	0.2678	0.1110
Mercury	120872-10-14 13:10 G	45868938.94	45868939.05	45868939.16	0.2676	0.0831
Mercury	120888-04-17 02:22 G	45874602.47	45874602.60	45874602.72	0.2655	0.1121
Mercury	120901-04-21 03:34 G	45879353.54	45879353.65	45879353.76	0.2657	0.1552
Mercury	120905-10-13 22:31 G	45880990.33	45880990.44	45880990.56	0.2678	0.0698
Mercury	120918-10-16 18:12 G	45885741.16	45885741.26	45885741.37	0.2676	0.1238
Mercury	120934-04-19 08:07 G	45891404.70	45891404.84	45891404.97	0.2655	0.0583
Mercury	120938-10-12 07:53 G	45893041.77	45893041.83	45893041.89	0.2680	0.2259
Mercury	120947-04-22 09:19 G	45896155.81	45896155.89	45896155.98	0.2658	0.2102
Mercury	120951-10-15 03:48 G	45897792.54	45897792.66	45897792.77	0.2678	0.0299
Venus	120963-10-09 06:55 G	45902169.63	45902169.79	45902169.94	0.2683	0.0118
Mercury	120964-10-16 23:14 G	45902543.38	45902543.47	45902543.57	0.2676	0.1641
Mercury	120967-04-17 12:55 G	45903456.04	45903456.04	45903456.04	0.2653	0.2648
Mercury	120980-04-19 13:53 G	45908206.94	45908207.08	45908207.22	0.2656	0.0048
Mercury	120984-10-12 12:55 G	45909843.96	45909844.04	45909844.13	0.2680	0.1843
Mercury	120993-04-22 15:19 G	45912958.14	45912958.14	45912958.14	0.2658	0.2657
Mercury	120997-10-15 08:50 G	45914594.75	45914594.87	45914594.99	0.2677	0.0132

122ND MILLENNIUM CE

This is a list of transits visible from Earth in the 122nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	121010-10-19 04:31	G	45919345.61	45919345.69	45919345.76	0.2675	0.2042	
Mercury	121013-04-18 18:41	G	45920258.20	45920258.28	45920258.36	0.2654	0.2130	
Mercury	121026-04-21 19:38	G	45925009.18	45925009.32	45925009.46	0.2656	0.0484	
Mercury	121030-10-14 17:58	G	45926646.15	45926646.25	45926646.35	0.2679	0.1428	
Mercury	121043-10-17 13:53	G	45931396.96	45931397.08	45931397.20	0.2677	0.0530	
Mercury	121056-10-19 09:34	G	45936147.85	45936147.90	45936147.94	0.2675	0.2437	
Mercury	121059-04-20 00:26	G	45937060.41	45937060.52	45937060.63	0.2654	0.1610	
Mercury	121072-04-22 01:24	G	45941811.44	45941811.56	45941811.69	0.2656	0.1032	
Mercury	121076-10-14 23:14	G	45943448.36	45943448.47	45943448.58	0.2679	0.1015	
Venus	121077-04-14 02:36	G	45943629.45	45943629.61	45943629.77	0.2649	0.0593	
Mercury	121089-10-17 18:55	G	45948199.18	45948199.29	45948199.40	0.2677	0.0941	
Mercury	121105-04-21 06:12	G	45953862.63	45953862.76	45953862.89	0.2654	0.1081	
Mercury	121109-10-14 08:22	G	45955499.82	45955499.85	45955499.88	0.2681	0.2593	
Mercury	121118-04-24 07:24	G	45958613.69	45958613.81	45958613.92	0.2657	0.1571	
Mercury	121122-10-17 04:17	G	45960250.57	45960250.68	45960250.80	0.2679	0.0599	
Mercury	121135-10-20 00:12	G	45965001.40	45965001.51	45965001.61	0.2676	0.1346	
Mercury	121151-04-22 11:58	G	45970664.86	45970665.00	45970665.14	0.2655	0.0552	
Mercury	121155-10-15 13:24	G	45972301.99	45972302.06	45972302.13	0.2681	0.2172	
Mercury	121164-04-24 13:10	G	45975415.97	45975416.05	45975416.13	0.2657	0.2115	
Mercury	121168-10-17 09:34	G	45977052.78	45977052.90	45977053.02	0.2678	0.0203	
Mercury	121181-10-20 05:14	G	45981803.63	45981803.72	45981803.81	0.2676	0.1749	
Mercury	121184-04-19 17:00	G	45982716.18	45982716.21	45982716.23	0.2653	0.2592	
Mercury	121197-04-22 17:43	G	45987467.10	45987467.24	45987467.38	0.2655	0.0028	
Mercury	121201-10-15 18:41	G	45989104.19	45989104.28	45989104.37	0.2680	0.1746	
Venus	121206-10-11 09:19	G	45990925.74	45990925.89	45990926.05	0.2684	0.0138	
Mercury	121214-10-18 14:36	G	45993854.99	45993855.11	45993855.23	0.2678	0.0230	

Mercury	121227-10-21 10:17 G	45998605.86	45998605.93	45998606.00	0.2676	0.2142
Mercury	121230-04-20 22:31 G	45999518.36	45999518.44	45999518.53	0.2653	0.2083
Mercury	121243-04-23 23:29 G	46004269.35	46004269.48	46004269.62	0.2656	0.0524
Mercury	121247-10-16 23:43 G	46005906.39	46005906.49	46005906.60	0.2680	0.1333
Mercury	121260-10-18 19:38 G	46010657.21	46010657.32	46010657.44	0.2678	0.0640
Mercury	121273-10-21 15:19 G	46015408.11	46015408.14	46015408.17	0.2676	0.2542
Mercury	121276-04-21 04:31 G	46016320.57	46016320.69	46016320.80	0.2653	0.1559
Mercury	121289-04-24 05:14 G	46021071.60	46021071.72	46021071.85	0.2656	0.1058
Mercury	121293-10-17 05:00 G	46022708.59	46022708.71	46022708.82	0.2680	0.0915
Mercury	121306-10-21 00:41 G	46027459.43	46027459.53	46027459.64	0.2677	0.1047
Venus	121320-04-16 01:53 G	46032385.43	46032385.58	46032385.74	0.2648	0.0761
Mercury	121322-04-23 10:17 G	46033122.80	46033122.93	46033123.05	0.2654	0.1033
Mercury	121326-10-16 13:53 G	46034760.04	46034760.08	46034760.12	0.2681	0.2506
Mercury	121335-04-26 11:14 G	46037873.86	46037873.97	46037874.08	0.2656	0.1598
Mercury	121339-10-19 10:02 G	46039510.80	46039510.92	46039511.04	0.2679	0.0497
Mercury	121352-10-21 05:57 G	46044261.65	46044261.75	46044261.85	0.2677	0.1452
Mercury	121368-04-23 16:02 G	46049925.03	46049925.17	46049925.30	0.2654	0.0517
Mercury	121372-10-16 19:09 G	46051562.23	46051562.30	46051562.38	0.2681	0.2076
Mercury	121381-04-26 17:00 G	46054676.12	46054676.21	46054676.29	0.2656	0.2132
Mercury	121385-10-19 15:05 G	46056313.02	46056313.13	46056313.25	0.2679	0.0126
Mercury	121398-10-22 11:00 G	46061063.87	46061063.96	46061064.04	0.2677	0.1848
Mercury	121401-04-22 20:50 G	46061976.34	46061976.37	46061976.41	0.2652	0.2549
Mercury	121414-04-25 21:33 G	46066727.26	46066727.40	46066727.54	0.2654	0.0059
Mercury	121418-10-19 00:12 G	46068364.42	46068364.51	46068364.61	0.2681	0.1662
Mercury	121431-10-21 20:21 G	46073115.23	46073115.35	46073115.47	0.2679	0.0331
Mercury	121444-10-23 16:02 G	46077866.11	46077866.17	46077866.23	0.2676	0.2251
Mercury	121447-04-24 02:36 G	46078778.53	46078778.61	46078778.70	0.2652	0.2029
Venus	121449-10-13 12:12 G	46079681.86	46079682.01	46079682.17	0.2686	0.0199
Mercury	121460-04-26 03:19 G	46083529.51	46083529.64	46083529.78	0.2655	0.0544
Mercury	121464-10-19 05:29 G	46085166.62	46085166.73	46085166.84	0.2680	0.1234

Mercury	121477-10-22 01:24 G	46089917.44	46089917.56	46089917.67	0.2678	0.0732
Mercury	121490-10-24 21:05 G	46094668.37	46094668.38	46094668.39	0.2676	0.2650
Mercury	121493-04-24 08:21 G	46095580.74	46095580.85	46095580.97	0.2653	0.1505
Mercury	121506-04-28 09:19 G	46100331.76	46100331.89	46100332.01	0.2655	0.1085
Mercury	121510-10-21 10:31 G	46101968.83	46101968.94	46101969.06	0.2680	0.0820
Mercury	121523-10-24 06:26 G	46106719.67	46106719.77	46106719.88	0.2678	0.1148
Mercury	121539-04-26 14:07 G	46112382.96	46112383.09	46112383.22	0.2653	0.0986
Mercury	121543-10-19 19:38 G	46114020.27	46114020.32	46114020.37	0.2682	0.2408
Mercury	121552-04-28 15:05 G	46117134.02	46117134.13	46117134.24	0.2655	0.1620
Mercury	121556-10-21 15:48 G	46118771.04	46118771.16	46118771.28	0.2680	0.0399
Venus	121563-04-19 01:24 G	46121141.41	46121141.56	46121141.71	0.2647	0.0911
Mercury	121569-10-24 11:29 G	46123521.89	46123521.98	46123522.08	0.2678	0.1558
Mercury	121585-04-26 19:53 G	46129185.19	46129185.33	46129185.47	0.2653	0.0472
Mercury	121589-10-20 00:55 G	46130822.46	46130822.54	46130822.62	0.2682	0.1987
Mercury	121598-04-29 20:50 G	46133936.29	46133936.37	46133936.45	0.2656	0.2159
Mercury	121602-10-22 20:50 G	46135573.25	46135573.37	46135573.49	0.2679	0.0027
Mercury	121615-10-25 16:45 G	46140324.12	46140324.20	46140324.28	0.2677	0.1961
Mercury	121618-04-25 01:09 G	46141236.50	46141236.55	46141236.59	0.2651	0.2477
Mercury	121631-04-28 01:38 G	46145987.43	46145987.57	46145987.71	0.2654	0.0056
Mercury	121635-10-21 05:57 G	46147624.65	46147624.75	46147624.85	0.2681	0.1561
Mercury	121648-10-23 01:53 G	46152375.47	46152375.58	46152375.70	0.2679	0.0433
Mercury	121661-10-25 21:48 G	46157126.36	46157126.41	46157126.47	0.2677	0.2359
Mercury	121664-04-25 06:41 G	46158038.69	46158038.78	46158038.87	0.2652	0.1971
Mercury	121677-04-28 07:24 G	46162789.68	46162789.81	46162789.95	0.2654	0.0590
Mercury	121681-10-21 11:00 G	46164426.86	46164426.96	46164427.07	0.2681	0.1147
Venus	121692-10-14 14:50 G	46168437.97	46168438.12	46168438.28	0.2687	0.0224
Mercury	121694-10-24 07:09 G	46169177.69	46169177.80	46169177.91	0.2679	0.0844
Mercury	121710-04-27 12:26 G	46174840.91	46174841.02	46174841.14	0.2652	0.1458
Mercury	121723-04-30 13:09 G	46179591.92	46179592.05	46179592.18	0.2654	0.1113
Mercury	121727-10-23 16:17 G	46181229.06	46181229.18	46181229.29	0.2681	0.0721

Mercury	121740-10-25 12:12 G	46185979.91	46185980.01	46185980.12	0.2679	0.1255
Mercury	121756-04-27 18:12 G	46191643.13	46191643.26	46191643.39	0.2652	0.0951
Mercury	121760-10-21 01:09 G	46193280.49	46193280.55	46193280.61	0.2683	0.2325
Mercury	121769-04-30 18:55 G	46196394.18	46196394.29	46196394.40	0.2655	0.1640
Mercury	121773-10-23 21:19 G	46198031.27	46198031.39	46198031.51	0.2681	0.0311
Mercury	121786-10-26 17:29 G	46202782.13	46202782.23	46202782.32	0.2678	0.1660
Mercury	121802-04-29 23:57 G	46208445.36	46208445.50	46208445.64	0.2653	0.0423
Venus	121806-04-21 00:41 G	46209897.38	46209897.53	46209897.68	0.2645	0.1076
Mercury	121806-10-23 06:26 G	46210082.68	46210082.77	46210082.85	0.2682	0.1893
Mercury	121815-05-03 00:41 G	46213196.45	46213196.53	46213196.61	0.2655	0.2175
Mercury	121819-10-26 02:36 G	46214833.49	46214833.61	46214833.73	0.2680	0.0124
Mercury	121832-10-27 22:31 G	46219584.36	46219584.44	46219584.51	0.2678	0.2063
Mercury	121835-04-28 05:14 G	46220496.67	46220496.72	46220496.77	0.2651	0.2414
Mercury	121848-04-30 05:43 G	46225247.60	46225247.74	46225247.88	0.2653	0.0110
Mercury	121852-10-23 11:29 G	46226884.88	46226884.98	46226885.08	0.2682	0.1471
Mercury	121865-10-26 07:38 G	46231635.71	46231635.82	46231635.94	0.2680	0.0548
Mercury	121878-10-29 03:33 G	46236386.61	46236386.65	46236386.70	0.2678	0.2478
Mercury	121881-04-28 11:00 G	46237298.86	46237298.96	46237299.05	0.2651	0.1908
Mercury	121894-05-01 11:29 G	46242049.84	46242049.98	46242050.11	0.2653	0.0626
Mercury	121898-10-24 16:45 G	46243687.09	46243687.20	46243687.31	0.2682	0.1040
Mercury	121911-10-28 12:55 G	46248437.93	46248438.04	46248438.15	0.2680	0.0950
Mercury	121927-04-30 16:31 G	46254101.08	46254101.19	46254101.31	0.2651	0.1405
Mercury	121931-10-24 01:38 G	46255738.56	46255738.57	46255738.58	0.2684	0.2663
Venus	121935-10-18 17:43 G	46257194.09	46257194.24	46257194.40	0.2688	0.0276
Mercury	121940-05-02 17:14 G	46258852.09	46258852.22	46258852.34	0.2654	0.1149
Mercury	121944-10-25 21:48 G	46260489.30	46260489.41	46260489.53	0.2681	0.0632
Mercury	121957-10-28 17:57 G	46265240.15	46265240.25	46265240.35	0.2679	0.1357
Mercury	121973-04-30 22:17 G	46270903.30	46270903.43	46270903.56	0.2652	0.0886
Mercury	121977-10-24 06:55 G	46272540.72	46272540.79	46272540.85	0.2683	0.2230
Mercury	121986-05-03 23:00 G	46275654.35	46275654.46	46275654.56	0.2654	0.1677

Mercury 121990-10-27 03:05 G 46277291.51 46277291.63 46277291.75 0.2681 0.0199

123RD MILLENNIUM CE

This is a list of transits visible from Earth in the 123rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	122003-10-29 23:00	G	46282042.38	46282042.46	46282042.55	0.2679	0.1769	
Mercury	122019-05-02 04:02	G	46287705.53	46287705.67	46287705.81	0.2652	0.0370	
Mercury	122023-10-25 11:57	G	46289342.91	46289343.00	46289343.09	0.2683	0.1804	
Mercury	122032-05-04 04:45	G	46292456.62	46292456.70	46292456.77	0.2654	0.2210	
Mercury	122036-10-27 08:21	G	46294093.73	46294093.85	46294093.97	0.2681	0.0229	
Venus	122041-04-24 10:31	G	46295733.90	46295733.94	46295733.97	0.2646	0.2555	
Venus	122049-04-22 00:12	G	46298653.37	46298653.51	46298653.66	0.2644	0.1219	
Mercury	122049-10-30 04:17	G	46298844.61	46298844.68	46298844.75	0.2679	0.2182	
Mercury	122052-04-29 09:33	G	46299756.84	46299756.90	46299756.96	0.2650	0.2354	
Mercury	122065-05-02 09:48	G	46304507.77	46304507.91	46304508.04	0.2652	0.0150	
Mercury	122069-10-25 17:14	G	46306145.12	46306145.22	46306145.32	0.2683	0.1370	
Mercury	122082-10-28 13:24	G	46310895.94	46310896.06	46310896.18	0.2680	0.0635	
Mercury	122095-10-31 09:19	G	46315646.86	46315646.89	46315646.92	0.2678	0.2581	
Mercury	122098-04-30 15:05	G	46316559.04	46316559.13	46316559.23	0.2650	0.1851	
Mercury	122111-05-04 15:19	G	46321310.01	46321310.14	46321310.28	0.2653	0.0660	
Mercury	122115-10-27 22:17	G	46322947.32	46322947.43	46322947.55	0.2682	0.0953	
Mercury	122128-10-29 18:26	G	46327698.16	46327698.27	46327698.38	0.2680	0.1050	
Mercury	122144-05-01 20:50	G	46333361.25	46333361.37	46333361.49	0.2651	0.1335	

Mercury	122148-10-25 07:09 G	46334998.77	46334998.80	46334998.84	0.2684	0.2569
Mercury	122157-05-04 21:05 G	46338112.26	46338112.38	46338112.51	0.2653	0.1190
Mercury	122161-10-28 03:33 G	46339749.53	46339749.65	46339749.77	0.2682	0.0520
Mercury	122174-10-30 23:43 G	46344500.39	46344500.49	46344500.59	0.2680	0.1466
Venus	122178-10-19 20:36 G	46345950.20	46345950.36	46345950.51	0.2690	0.0298
Mercury	122190-05-03 02:36 G	46350163.48	46350163.61	46350163.74	0.2651	0.0836
Mercury	122194-10-26 12:26 G	46351800.95	46351801.02	46351801.09	0.2684	0.2139
Mercury	122203-05-07 02:50 G	46354914.52	46354914.62	46354914.73	0.2653	0.1715
Mercury	122207-10-30 08:50 G	46356551.75	46356551.87	46356551.99	0.2682	0.0114
Mercury	122220-11-01 04:45 G	46361302.62	46361302.70	46361302.79	0.2680	0.1883
Mercury	122236-05-04 08:07 G	46366965.70	46366965.84	46366965.98	0.2651	0.0328
Mercury	122240-10-27 17:43 G	46368603.14	46368603.24	46368603.33	0.2684	0.1706
Mercury	122249-05-07 08:36 G	46371716.79	46371716.86	46371716.93	0.2654	0.2237
Mercury	122253-10-30 13:53 G	46373353.96	46373354.08	46373354.20	0.2681	0.0318
Mercury	122266-11-02 10:02 G	46378104.86	46378104.92	46378104.98	0.2679	0.2285
Mercury	122269-05-02 13:38 G	46379017.01	46379017.07	46379017.14	0.2649	0.2289
Mercury	122282-05-05 13:53 G	46383767.94	46383768.08	46383768.22	0.2652	0.0191
Venus	122284-04-26 09:48 G	46384489.85	46384489.91	46384489.98	0.2644	0.2408
Mercury	122286-10-28 22:45 G	46385405.34	46385405.45	46385405.56	0.2683	0.1281
Venus	122292-04-23 23:43 G	46387409.35	46387409.49	46387409.63	0.2642	0.1371
Mercury	122299-10-31 18:55 G	46390156.18	46390156.29	46390156.41	0.2681	0.0740
Mercury	122315-05-04 19:24 G	46395819.21	46395819.31	46395819.41	0.2650	0.1783
Mercury	122328-05-06 19:38 G	46400570.18	46400570.32	46400570.45	0.2652	0.0707
Mercury	122332-10-30 04:02 G	46402207.55	46402207.67	46402207.78	0.2683	0.0848
Mercury	122345-11-02 00:12 G	46406958.40	46406958.51	46406958.62	0.2681	0.1155
Mercury	122361-05-05 00:55 G	46412621.42	46412621.54	46412621.66	0.2650	0.1292
Mercury	122365-10-28 12:41 G	46414258.99	46414259.03	46414259.08	0.2685	0.2483
Mercury	122374-05-08 01:09 G	46417372.43	46417372.55	46417372.68	0.2652	0.1221
Mercury	122378-10-31 09:05 G	46419009.76	46419009.88	46419010.00	0.2683	0.0433
Mercury	122391-11-03 05:29 G	46423760.63	46423760.73	46423760.82	0.2681	0.1570

Mercury	122407-05-06 06:41 G	46429423.65	46429423.78	46429423.91	0.2650	0.0782
Mercury	122411-10-29 17:57 G	46431061.17	46431061.25	46431061.33	0.2685	0.2049
Mercury	122420-05-08 06:55 G	46434174.69	46434174.79	46434174.89	0.2653	0.1741
Venus	122421-10-21 23:29 G	46434706.32	46434706.48	46434706.63	0.2691	0.0339
Mercury	122424-10-31 14:21 G	46435811.98	46435812.10	46435812.22	0.2683	0.0045
Mercury	122437-11-03 10:31 G	46440562.86	46440562.94	46440563.02	0.2680	0.1980
Mercury	122453-05-06 12:26 G	46446225.88	46446226.02	46446226.15	0.2651	0.0288
Mercury	122457-10-29 23:14 G	46447863.37	46447863.47	46447863.56	0.2685	0.1618
Mercury	122466-05-09 12:41 G	46450976.96	46450977.03	46450977.10	0.2653	0.2264
Mercury	122470-11-01 19:24 G	46452614.20	46452614.31	46452614.43	0.2682	0.0429
Mercury	122483-11-04 15:48 G	46457365.10	46457365.16	46457365.21	0.2680	0.2395
Mercury	122486-05-04 17:57 G	46458277.18	46458277.25	46458277.32	0.2648	0.2217
Mercury	122499-05-07 17:57 G	46463028.12	46463028.25	46463028.39	0.2651	0.0239
Mercury	122503-11-01 04:17 G	46464665.57	46464665.68	46464665.79	0.2684	0.1185
Mercury	122516-11-03 00:41 G	46469416.42	46469416.53	46469416.65	0.2682	0.0839
Venus	122527-04-29 09:19 G	46473245.81	46473245.89	46473245.97	0.2643	0.2246
Mercury	122532-05-05 23:29 G	46475079.38	46475079.48	46475079.59	0.2649	0.1726
Venus	122535-04-26 23:14 G	46476165.33	46476165.47	46476165.60	0.2641	0.1499
Mercury	122545-05-08 23:43 G	46479830.36	46479830.49	46479830.62	0.2651	0.0751
Mercury	122549-11-01 09:33 G	46481467.78	46481467.90	46481468.01	0.2684	0.0765
Mercury	122562-11-04 05:57 G	46486218.64	46486218.75	46486218.85	0.2682	0.1260
Mercury	122578-05-07 05:14 G	46491881.60	46491881.72	46491881.84	0.2649	0.1224
Mercury	122582-10-30 18:12 G	46493519.21	46493519.26	46493519.31	0.2686	0.2401
Mercury	122591-05-10 05:29 G	46496632.61	46496632.73	46496632.85	0.2651	0.1261
Mercury	122595-11-02 14:50 G	46498270.00	46498270.12	46498270.24	0.2684	0.0338
Mercury	122608-11-05 11:00 G	46503020.87	46503020.96	46503021.05	0.2681	0.1672
Mercury	122624-05-08 10:45 G	46508683.82	46508683.95	46508684.08	0.2649	0.0735
Mercury	122628-10-31 23:29 G	46510321.40	46510321.48	46510321.56	0.2685	0.1965
Mercury	122637-05-11 11:00 G	46513434.86	46513434.96	46513435.06	0.2652	0.1776
Mercury	122641-11-03 19:53 G	46515072.21	46515072.33	46515072.45	0.2683	0.0095

Mercury	122654-11-06 16:17 G	46519823.10	46519823.18	46519823.25	0.2681	0.2087
Venus	122664-10-24 02:07 G	46523462.43	46523462.59	46523462.74	0.2692	0.0344
Mercury	122670-05-09 16:31 G	46525486.05	46525486.19	46525486.33	0.2650	0.0225
Mercury	122674-11-02 04:31 G	46527123.60	46527123.69	46527123.79	0.2685	0.1534
Mercury	122683-05-12 16:45 G	46530237.13	46530237.20	46530237.27	0.2652	0.2291
Mercury	122687-11-05 01:09 G	46531874.43	46531874.55	46531874.67	0.2683	0.0517
Mercury	122700-11-07 21:19 G	46536625.35	46536625.39	46536625.43	0.2681	0.2497
Mercury	122703-05-08 22:17 G	46537537.35	46537537.43	46537537.51	0.2648	0.2151
Mercury	122716-05-10 22:17 G	46542288.29	46542288.43	46542288.56	0.2650	0.0290
Mercury	122720-11-03 09:48 G	46543925.80	46543925.91	46543926.02	0.2685	0.1097
Mercury	122733-11-06 06:12 G	46548676.65	46548676.76	46548676.88	0.2683	0.0943
Mercury	122749-05-09 03:48 G	46554339.56	46554339.66	46554339.77	0.2648	0.1662
Mercury	122762-05-12 03:48 G	46559090.53	46559090.66	46559090.79	0.2651	0.0789
Mercury	122766-11-04 15:05 G	46560728.01	46560728.13	46560728.25	0.2685	0.0662
Venus	122770-05-01 08:36 G	46562001.77	46562001.86	46562001.96	0.2641	0.2098
Venus	122778-04-28 22:17 G	46564921.31	46564921.43	46564921.55	0.2639	0.1682
Mercury	122779-11-07 11:29 G	46565478.87	46565478.98	46565479.08	0.2682	0.1356
Mercury	122795-05-10 09:33 G	46571141.78	46571141.90	46571142.02	0.2648	0.1169
Mercury	122799-11-02 23:43 G	46572779.43	46572779.49	46572779.55	0.2686	0.2315
Mercury	122808-05-12 09:33 G	46575892.78	46575892.90	46575893.02	0.2651	0.1302
Mercury	122812-11-04 20:21 G	46577530.23	46577530.35	46577530.47	0.2684	0.0248
Mercury	122825-11-07 16:31 G	46582281.11	46582281.19	46582281.28	0.2682	0.1779
Mercury	122841-05-10 15:05 G	46587944.00	46587944.13	46587944.26	0.2649	0.0671
Mercury	122845-11-03 05:00 G	46589581.62	46589581.71	46589581.79	0.2686	0.1876
Mercury	122854-05-13 15:05 G	46592695.03	46592695.13	46592695.23	0.2651	0.1806
Mercury	122858-11-06 01:24 G	46594332.44	46594332.56	46594332.69	0.2684	0.0213
Mercury	122871-11-08 21:48 G	46599083.34	46599083.41	46599083.48	0.2682	0.2191
Mercury	122874-05-08 21:05 G	46599995.35	46599995.38	46599995.41	0.2647	0.2573
Mercury	122887-05-11 20:50 G	46604746.23	46604746.37	46604746.50	0.2649	0.0197
Mercury	122891-11-04 10:02 G	46606383.82	46606383.92	46606384.03	0.2686	0.1441

Mercury	122900-05-14 20:50	G	46609497.31	46609497.37	46609497.43	0.2651	0.2327
Mercury	122904-11-07 06:41	G	46611134.66	46611134.78	46611134.90	0.2684	0.0612
Venus	122907-10-27 04:45	G	46612218.55	46612218.70	46612218.85	0.2694	0.0366
Mercury	122917-11-10 02:50	G	46615885.60	46615885.62	46615885.65	0.2681	0.2605
Mercury	122920-05-10 02:36	G	46616797.53	46616797.61	46616797.69	0.2647	0.2091
Mercury	122933-05-13 02:21	G	46621548.47	46621548.60	46621548.74	0.2649	0.0327
Mercury	122937-11-05 15:19	G	46623186.03	46623186.14	46623186.25	0.2686	0.1009
Mercury	122950-11-08 11:57	G	46627936.88	46627937.00	46627937.11	0.2683	0.1042
Mercury	122966-05-11 08:07	G	46633599.74	46633599.84	46633599.95	0.2647	0.1605
Mercury	122970-11-03 23:57	G	46635237.49	46635237.50	46635237.50	0.2688	0.2673
Mercury	122979-05-14 07:53	G	46638350.70	46638350.83	46638350.96	0.2650	0.0825
Mercury	122983-11-06 20:36	G	46639988.24	46639988.36	46639988.48	0.2685	0.0578
Mercury	122996-11-08 17:00	G	46644739.11	46644739.21	46644739.31	0.2683	0.1456

124TH MILLENNIUM CE

This is a list of transits visible from Earth in the 124th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	123012-05-12 13:53	G	46650401.95	46650402.08	46650402.20	0.2648	0.1113	
Venus	123013-05-03 07:53	G	46650757.72	46650757.83	46650757.94	0.2640	0.1919	
Mercury	123016-11-05 05:14	G	46652039.65	46652039.72	46652039.78	0.2687	0.2227	
Venus	123021-04-30 21:33	G	46653677.29	46653677.40	46653677.52	0.2638	0.1831	
Mercury	123025-05-15 13:38	G	46655152.95	46655153.07	46655153.19	0.2650	0.1329	
Mercury	123029-11-08 01:53	G	46656790.45	46656790.58	46656790.70	0.2685	0.0165	

Mercury	123042-11-10 22:17 G	46661541.34	46661541.43	46661541.51	0.2683	0.1875
Mercury	123058-05-13 19:24 G	46667204.18	46667204.31	46667204.44	0.2648	0.0615
Mercury	123062-11-06 10:17 G	46668841.84	46668841.93	46668842.02	0.2687	0.1789
Mercury	123071-05-16 19:24 G	46671955.21	46671955.31	46671955.41	0.2650	0.1851
Mercury	123075-11-09 06:55 G	46673592.67	46673592.79	46673592.91	0.2685	0.0288
Mercury	123088-11-11 03:19 G	46678343.58	46678343.64	46678343.70	0.2683	0.2299
Mercury	123091-05-12 01:24 G	46679255.52	46679255.56	46679255.60	0.2646	0.2501
Mercury	123104-05-15 00:55 G	46684006.41	46684006.54	46684006.68	0.2648	0.0148
Mercury	123108-11-07 15:33 G	46685644.05	46685644.15	46685644.26	0.2687	0.1352
Mercury	123117-05-18 00:55 G	46688757.48	46688757.54	46688757.60	0.2651	0.2361
Mercury	123121-11-10 12:12 G	46690394.89	46690395.01	46690395.13	0.2684	0.0717
Mercury	123137-05-13 06:55 G	46696057.71	46696057.79	46696057.88	0.2646	0.2023
Mercury	123150-05-16 06:41 G	46700808.64	46700808.78	46700808.91	0.2649	0.0375
Venus	123150-10-29 07:24 G	46700974.66	46700974.81	46700974.97	0.2695	0.0392
Mercury	123154-11-08 20:50 G	46702446.25	46702446.37	46702446.48	0.2686	0.0918
Mercury	123167-11-11 17:29 G	46707197.12	46707197.23	46707197.34	0.2684	0.1134
Mercury	123183-05-14 12:26 G	46712859.92	46712860.02	46712860.13	0.2647	0.1538
Mercury	123187-11-07 05:14 G	46714497.69	46714497.72	46714497.75	0.2688	0.2589
Mercury	123196-05-16 12:12 G	46717610.89	46717611.01	46717611.14	0.2649	0.0885
Mercury	123200-11-09 02:07 G	46719248.47	46719248.59	46719248.71	0.2686	0.0486
Mercury	123213-11-11 22:31 G	46723999.35	46723999.44	46723999.54	0.2684	0.1560
Mercury	123229-05-14 18:12 G	46729662.13	46729662.26	46729662.38	0.2647	0.1049
Mercury	123233-11-07 10:31 G	46731299.87	46731299.94	46731300.01	0.2688	0.2148
Mercury	123242-05-17 17:57 G	46734413.13	46734413.25	46734413.36	0.2649	0.1383
Mercury	123246-11-10 07:09 G	46736050.68	46736050.80	46736050.93	0.2686	0.0116
Venus	123256-05-04 07:09 G	46739513.69	46739513.80	46739513.92	0.2638	0.1788
Mercury	123259-11-13 03:48 G	46740801.58	46740801.66	46740801.74	0.2683	0.1982
Venus	123264-05-01 20:50 G	46742433.27	46742433.37	46742433.48	0.2636	0.1982
Mercury	123275-05-15 23:43 G	46746464.36	46746464.49	46746464.62	0.2647	0.0564
Mercury	123279-11-08 15:48 G	46748102.06	46748102.16	46748102.25	0.2688	0.1707

Mercury	123288-05-17 23:29	G	46751215.39	46751215.48	46751215.58	0.2650	0.1883
Mercury	123292-11-10 12:26	G	46752852.90	46752853.02	46752853.14	0.2685	0.0388
Mercury	123305-11-14 09:05	G	46757603.82	46757603.88	46757603.93	0.2683	0.2397
Mercury	123308-05-14 05:43	G	46758515.70	46758515.74	46758515.79	0.2645	0.2433
Mercury	123321-05-17 05:14	G	46763266.59	46763266.72	46763266.86	0.2648	0.0100
Mercury	123325-11-09 21:05	G	46764904.27	46764904.38	46764904.48	0.2687	0.1266
Mercury	123334-05-20 05:14	G	46768017.66	46768017.72	46768017.77	0.2650	0.2390
Mercury	123338-11-12 17:43	G	46769655.12	46769655.24	46769655.36	0.2685	0.0801
Mercury	123354-05-15 11:29	G	46775317.89	46775317.98	46775318.07	0.2646	0.1942
Mercury	123367-05-18 11:00	G	46780068.83	46780068.96	46780069.09	0.2648	0.0436
Mercury	123371-11-11 02:21	G	46781706.48	46781706.60	46781706.71	0.2687	0.0826
Mercury	123384-11-12 23:00	G	46786457.35	46786457.46	46786457.57	0.2685	0.1239
Venus	123393-10-30 10:17	G	46789730.78	46789730.93	46789731.09	0.2697	0.0414
Mercury	123400-05-16 17:00	G	46792120.10	46792120.21	46792120.32	0.2646	0.1465
Mercury	123404-11-09 10:31	G	46793757.90	46793757.94	46793757.99	0.2689	0.2508
Mercury	123413-05-19 16:31	G	46796871.07	46796871.19	46796871.32	0.2648	0.0930
Mercury	123417-11-12 07:38	G	46798508.69	46798508.82	46798508.94	0.2687	0.0397
Mercury	123430-11-15 04:17	G	46803259.58	46803259.68	46803259.77	0.2685	0.1666
Mercury	123446-05-17 22:31	G	46808922.32	46808922.44	46808922.57	0.2646	0.0986
Mercury	123450-11-10 15:48	G	46810560.09	46810560.16	46810560.24	0.2689	0.2066
Mercury	123459-05-20 22:17	G	46813673.31	46813673.43	46813673.54	0.2648	0.1429
Mercury	123463-11-13 12:41	G	46815310.91	46815311.03	46815311.16	0.2686	0.0100
Mercury	123476-11-15 09:19	G	46820061.82	46820061.89	46820061.97	0.2684	0.2082
Mercury	123492-05-18 04:02	G	46825724.54	46825724.67	46825724.81	0.2646	0.0506
Mercury	123496-11-10 21:05	G	46827362.29	46827362.38	46827362.48	0.2688	0.1621
Venus	123499-05-07 06:41	G	46828269.65	46828269.78	46828269.90	0.2637	0.1633
Mercury	123505-05-22 03:48	G	46830475.57	46830475.66	46830475.75	0.2649	0.1927
Venus	123507-05-05 20:36	G	46831189.26	46831189.36	46831189.46	0.2635	0.2094
Mercury	123509-11-14 17:57	G	46832113.13	46832113.25	46832113.37	0.2686	0.0472
Mercury	123522-11-17 14:36	G	46836864.07	46836864.11	46836864.15	0.2684	0.2501

Mercury	123525-05-17 10:17 G	46837775.88	46837775.93	46837775.99	0.2645	0.2351
Mercury	123538-05-20 09:48 G	46842526.77	46842526.91	46842527.04	0.2647	0.0042
Mercury	123542-11-13 02:36 G	46844164.49	46844164.61	46844164.72	0.2688	0.1180
Mercury	123551-05-23 09:19 G	46847277.84	46847277.89	46847277.95	0.2649	0.2428
Mercury	123555-11-15 23:14 G	46848915.36	46848915.47	46848915.59	0.2686	0.0912
Mercury	123571-05-18 15:48 G	46854578.07	46854578.16	46854578.26	0.2645	0.1883
Mercury	123584-05-20 15:19 G	46859329.00	46859329.14	46859329.27	0.2647	0.0481
Mercury	123588-11-13 07:38 G	46860966.70	46860966.82	46860966.94	0.2688	0.0741
Mercury	123601-11-16 04:31 G	46865717.58	46865717.69	46865717.79	0.2686	0.1334
Mercury	123617-05-18 21:19 G	46871380.28	46871380.39	46871380.51	0.2645	0.1405
Mercury	123621-11-11 16:02 G	46873018.12	46873018.17	46873018.22	0.2690	0.2429
Mercury	123630-05-21 20:50 G	46876131.25	46876131.37	46876131.50	0.2647	0.0975
Mercury	123634-11-14 12:55 G	46877768.92	46877769.04	46877769.16	0.2688	0.0304
Venus	123636-11-01 12:55 G	46878486.89	46878487.04	46878487.20	0.2698	0.0413
Mercury	123647-11-17 09:33 G	46882519.81	46882519.90	46882519.99	0.2685	0.1761
Mercury	123663-05-20 03:05 G	46888182.50	46888182.63	46888182.75	0.2645	0.0917
Mercury	123667-11-12 21:19 G	46889820.31	46889820.39	46889820.47	0.2690	0.1974
Mercury	123676-05-22 02:21 G	46892933.49	46892933.60	46892933.72	0.2648	0.1472
Mercury	123680-11-14 18:12 G	46894571.14	46894571.26	46894571.38	0.2687	0.0139
Mercury	123693-11-17 14:50 G	46899322.05	46899322.12	46899322.19	0.2685	0.2184
Mercury	123709-05-21 08:36 G	46904984.73	46904984.86	46904984.99	0.2646	0.0432
Mercury	123713-11-14 02:36 G	46906622.51	46906622.61	46906622.71	0.2689	0.1528
Mercury	123722-05-24 08:07 G	46909735.75	46909735.84	46909735.93	0.2648	0.1973
Mercury	123726-11-16 23:29 G	46911373.36	46911373.48	46911373.60	0.2687	0.0577
Mercury	123739-11-19 20:07 G	46916124.31	46916124.34	46916124.36	0.2685	0.2609
Venus	123742-05-09 06:12 G	46917025.63	46917025.76	46917025.90	0.2635	0.1523
Mercury	123742-05-19 14:50 G	46917036.06	46917036.12	46917036.19	0.2644	0.2276
Venus	123750-05-06 19:53 G	46919945.25	46919945.33	46919945.41	0.2633	0.2236
Mercury	123755-05-22 14:07 G	46921786.96	46921787.09	46921787.22	0.2646	0.0053
Mercury	123759-11-15 07:53 G	46923424.71	46923424.83	46923424.94	0.2689	0.1093

Mercury	123768-05-24 13:53 G	46926538.03	46926538.08	46926538.12	0.2648	0.2478
Mercury	123772-11-17 04:45 G	46928175.58	46928175.70	46928175.81	0.2687	0.1006
Mercury	123788-05-19 20:21 G	46933838.26	46933838.35	46933838.45	0.2644	0.1802
Mercury	123801-05-23 19:38 G	46938589.19	46938589.32	46938589.46	0.2646	0.0546
Mercury	123805-11-16 13:09 G	46940226.93	46940227.05	46940227.17	0.2689	0.0651
Mercury	123818-11-19 10:02 G	46944977.81	46944977.92	46944978.02	0.2686	0.1440
Mercury	123834-05-22 01:53 G	46950640.47	46950640.58	46950640.70	0.2644	0.1332
Mercury	123838-11-14 21:19 G	46952278.33	46952278.39	46952278.45	0.2691	0.2341
Mercury	123847-05-25 01:09 G	46955391.43	46955391.55	46955391.68	0.2647	0.1030
Mercury	123851-11-17 18:26 G	46957029.14	46957029.27	46957029.39	0.2688	0.0216
Mercury	123864-11-19 15:05 G	46961780.05	46961780.13	46961780.22	0.2686	0.1862
Venus	123879-11-04 15:48 G	46967243.01	46967243.16	46967243.31	0.2700	0.0428
Mercury	123880-05-22 07:24 G	46967442.69	46967442.81	46967442.94	0.2645	0.0854
Mercury	123884-11-15 02:36 G	46969080.52	46969080.61	46969080.70	0.2690	0.1897
Mercury	123893-05-25 06:55 G	46972193.68	46972193.79	46972193.90	0.2647	0.1525
Mercury	123897-11-17 23:43 G	46973831.36	46973831.49	46973831.61	0.2688	0.0242
Mercury	123910-11-21 20:21 G	46978582.29	46978582.35	46978582.41	0.2686	0.2292
Mercury	123926-05-24 12:55 G	46984244.91	46984245.04	46984245.18	0.2645	0.0381
Mercury	123930-11-17 07:53 G	46985882.73	46985882.83	46985882.93	0.2690	0.1448
Mercury	123939-05-27 12:26 G	46988995.94	46988996.02	46988996.11	0.2647	0.2013
Mercury	123943-11-20 05:00 G	46990633.59	46990633.71	46990633.82	0.2688	0.0674
Mercury	123959-05-22 19:24 G	46996296.24	46996296.31	46996296.38	0.2643	0.2196
Mercury	123972-05-24 18:41 G	47001047.14	47001047.28	47001047.41	0.2645	0.0123
Mercury	123976-11-17 13:09 G	47002684.94	47002685.05	47002685.17	0.2690	0.0999
Venus	123985-05-11 05:29 G	47005781.60	47005781.73	47005781.87	0.2634	0.1368
Mercury	123985-05-27 17:57 G	47005798.22	47005798.25	47005798.29	0.2648	0.2511
Mercury	123989-11-20 10:17 G	47007435.82	47007435.93	47007436.04	0.2687	0.1109
Venus	123993-05-08 19:24 G	47008701.24	47008701.31	47008701.38	0.2632	0.2357

125TH MILLENNIUM CE

This is a list of transits visible from Earth in the 125th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	124005-05-23 00:55	G	47013098.44	47013098.54	47013098.64	0.2643	0.1728	
Mercury	124018-05-26 00:12	G	47017849.38	47017849.51	47017849.64	0.2646	0.0601	
Mercury	124022-11-18 18:26	G	47019487.15	47019487.27	47019487.39	0.2689	0.0557	
Mercury	124035-11-21 15:19	G	47024238.04	47024238.14	47024238.24	0.2687	0.1536	
Mercury	124051-05-24 06:26	G	47029900.66	47029900.77	47029900.89	0.2644	0.1253	
Mercury	124055-11-17 02:36	G	47031538.54	47031538.61	47031538.67	0.2691	0.2267	
Mercury	124064-05-26 05:43	G	47034651.62	47034651.74	47034651.86	0.2646	0.1091	
Mercury	124068-11-18 23:43	G	47036289.37	47036289.49	47036289.62	0.2689	0.0135	
Mercury	124081-11-21 20:36	G	47041040.28	47041040.36	47041040.45	0.2687	0.1970	
Mercury	124097-05-24 11:57	G	47046702.88	47046703.00	47046703.13	0.2644	0.0783	
Mercury	124101-11-18 07:53	G	47048340.74	47048340.83	47048340.92	0.2691	0.1809	
Mercury	124110-05-28 11:14	G	47051453.86	47051453.97	47051454.08	0.2646	0.1572	
Mercury	124114-11-21 05:00	G	47053091.59	47053091.71	47053091.83	0.2689	0.0329	
Venus	124122-11-06 18:26	G	47055999.12	47055999.27	47055999.43	0.2701	0.0425	
Mercury	124127-11-24 01:53	G	47057842.53	47057842.58	47057842.63	0.2686	0.2387	
Mercury	124130-05-23 18:26	G	47058754.25	47058754.27	47058754.30	0.2642	0.2588	
Mercury	124143-05-26 17:29	G	47063505.10	47063505.23	47063505.37	0.2644	0.0312	
Mercury	124147-11-19 13:09	G	47065142.95	47065143.05	47065143.16	0.2691	0.1366	
Mercury	124156-05-28 17:00	G	47068256.12	47068256.21	47068256.29	0.2646	0.2066	
Mercury	124160-11-21 10:17	G	47069893.81	47069893.93	47069894.05	0.2688	0.0764	

Mercury	124176-05-23 23:57 G	47075556.43	47075556.50	47075556.58	0.2642	0.2121
Mercury	124189-05-26 23:00 G	47080307.33	47080307.46	47080307.60	0.2644	0.0182
Mercury	124193-11-19 18:26 G	47081945.16	47081945.27	47081945.39	0.2691	0.0921
Mercury	124202-05-30 22:31 G	47085058.40	47085058.44	47085058.47	0.2647	0.2552
Mercury	124206-11-23 15:33 G	47086696.04	47086696.15	47086696.26	0.2688	0.1196
Mercury	124222-05-26 05:29 G	47092358.63	47092358.73	47092358.84	0.2642	0.1653
Mercury	124226-11-19 02:36 G	47093996.59	47093996.61	47093996.63	0.2693	0.2639
Venus	124228-05-13 05:00 G	47094537.57	47094537.71	47094537.86	0.2632	0.1235
Mercury	124235-05-29 04:31 G	47097109.56	47097109.69	47097109.82	0.2645	0.0656
Venus	124236-05-10 18:41 G	47097457.24	47097457.28	47097457.33	0.2630	0.2495
Mercury	124239-11-21 23:57 G	47098747.37	47098747.50	47098747.62	0.2690	0.0474
Mercury	124252-11-23 20:50 G	47103498.27	47103498.37	47103498.47	0.2688	0.1631
Mercury	124268-05-26 11:00 G	47109160.85	47109160.96	47109161.08	0.2643	0.1184
Mercury	124272-11-19 07:53 G	47110798.76	47110798.83	47110798.90	0.2692	0.2179
Mercury	124281-05-29 10:02 G	47113911.80	47113911.92	47113912.05	0.2645	0.1141
Mercury	124285-11-22 05:00 G	47115549.59	47115549.71	47115549.84	0.2690	0.0100
Mercury	124298-11-25 02:07 G	47120300.51	47120300.59	47120300.66	0.2688	0.2059
Mercury	124314-05-28 16:31 G	47125963.06	47125963.19	47125963.32	0.2643	0.0710
Mercury	124318-11-21 13:09 G	47127600.96	47127601.05	47127601.15	0.2692	0.1736
Mercury	124327-05-31 15:48 G	47130714.05	47130714.16	47130714.26	0.2645	0.1627
Mercury	124331-11-24 10:31 G	47132351.81	47132351.94	47132352.06	0.2690	0.0428
Mercury	124344-11-26 07:24 G	47137102.76	47137102.81	47137102.85	0.2687	0.2494
Mercury	124347-05-26 23:14 G	47138014.43	47138014.47	47138014.51	0.2641	0.2494
Mercury	124360-05-28 22:02 G	47142765.29	47142765.42	47142765.55	0.2643	0.0242
Mercury	124364-11-21 18:26 G	47144403.17	47144403.27	47144403.38	0.2692	0.1282
Venus	124365-11-08 21:19 G	47144755.24	47144755.39	47144755.54	0.2703	0.0433
Mercury	124373-05-31 21:19 G	47147516.31	47147516.39	47147516.47	0.2646	0.2107
Mercury	124377-11-24 15:33 G	47149154.04	47149154.15	47149154.27	0.2689	0.0860
Mercury	124393-05-27 04:45 G	47154816.62	47154816.70	47154816.78	0.2641	0.2040
Mercury	124406-05-30 03:33 G	47159567.52	47159567.65	47159567.79	0.2644	0.0243

Mercury	124410-11-22 23:43 G	47161205.38	47161205.49	47161205.61	0.2691	0.0837
Mercury	124419-06-02 02:50 G	47164318.60	47164318.62	47164318.64	0.2646	0.2600
Mercury	124423-11-25 20:50 G	47165956.27	47165956.37	47165956.48	0.2689	0.1293
Mercury	124439-05-28 10:17 G	47171618.82	47171618.93	47171619.03	0.2642	0.1577
Mercury	124443-11-21 07:53 G	47173256.79	47173256.83	47173256.86	0.2693	0.2570
Mercury	124452-05-30 09:05 G	47176369.75	47176369.88	47176370.01	0.2644	0.0715
Mercury	124456-11-23 05:00 G	47178007.59	47178007.71	47178007.84	0.2691	0.0398
Mercury	124469-11-26 02:07 G	47182758.50	47182758.59	47182758.69	0.2689	0.1729
Venus	124471-05-15 04:31 G	47183293.54	47183293.69	47183293.84	0.2631	0.1109
Venus	124479-05-12 18:26 G	47186213.25	47186213.27	47186213.29	0.2629	0.2603
Mercury	124485-05-28 15:33 G	47188421.03	47188421.15	47188421.27	0.2642	0.1118
Mercury	124489-11-21 13:09 G	47190058.97	47190059.05	47190059.12	0.2693	0.2114
Mercury	124498-05-31 14:36 G	47193171.99	47193172.11	47193172.23	0.2644	0.1189
Mercury	124502-11-25 10:31 G	47194809.81	47194809.94	47194810.06	0.2691	0.0110
Mercury	124515-11-28 07:24 G	47199560.74	47199560.81	47199560.89	0.2688	0.2161
Mercury	124531-05-30 21:05 G	47205223.25	47205223.38	47205223.51	0.2642	0.0651
Mercury	124535-11-23 18:26 G	47206861.17	47206861.27	47206861.37	0.2693	0.1653
Mercury	124544-06-01 20:07 G	47209974.24	47209974.34	47209974.45	0.2645	0.1669
Mercury	124548-11-25 15:48 G	47211612.03	47211612.16	47211612.28	0.2690	0.0509
Mercury	124561-11-28 12:41 G	47216363.00	47216363.03	47216363.06	0.2688	0.2587
Mercury	124564-05-28 03:48 G	47217274.61	47217274.66	47217274.72	0.2640	0.2414
Mercury	124577-05-31 02:36 G	47222025.48	47222025.61	47222025.75	0.2643	0.0187
Mercury	124581-11-23 23:43 G	47223663.38	47223663.49	47223663.60	0.2693	0.1200
Mercury	124590-06-03 01:38 G	47226776.50	47226776.57	47226776.65	0.2645	0.2155
Mercury	124594-11-26 21:05 G	47228414.26	47228414.38	47228414.49	0.2690	0.0950
Venus	124608-11-10 23:43 G	47233511.34	47233511.49	47233511.65	0.2704	0.0404
Mercury	124610-05-30 09:19 G	47234076.81	47234076.89	47234076.98	0.2640	0.1959
Mercury	124623-06-02 08:07 G	47238827.71	47238827.84	47238827.97	0.2643	0.0301
Mercury	124627-11-26 05:00 G	47240465.59	47240465.71	47240465.83	0.2692	0.0751
Mercury	124640-11-28 02:21 G	47245216.49	47245216.60	47245216.70	0.2690	0.1385

Mercury	124656-05-30 14:50 G	47250879.01	47250879.12	47250879.23	0.2641	0.1501
Mercury	124660-11-23 12:55 G	47252517.00	47252517.04	47252517.08	0.2694	0.2501
Mercury	124669-06-02 13:38 G	47255629.95	47255630.07	47255630.20	0.2643	0.0776
Mercury	124673-11-26 10:16 G	47257267.81	47257267.93	47257268.06	0.2692	0.0317
Mercury	124686-11-29 07:38 G	47262018.73	47262018.82	47262018.91	0.2690	0.1826
Mercury	124702-06-01 20:21 G	47267681.23	47267681.35	47267681.47	0.2641	0.1038
Mercury	124706-11-25 18:12 G	47269319.18	47269319.26	47269319.34	0.2694	0.2033
Venus	124714-05-18 03:48 G	47272049.51	47272049.66	47272049.81	0.2629	0.0969
Mercury	124715-06-04 19:09 G	47272432.18	47272432.30	47272432.42	0.2643	0.1241
Mercury	124719-11-28 15:48 G	47274070.03	47274070.16	47274070.28	0.2691	0.0161
Mercury	124732-11-30 12:55 G	47278820.97	47278821.04	47278821.10	0.2689	0.2252
Mercury	124748-06-02 01:52 G	47284483.45	47284483.58	47284483.71	0.2641	0.0578
Mercury	124752-11-25 23:43 G	47286121.39	47286121.49	47286121.59	0.2693	0.1581
Mercury	124761-06-05 00:40 G	47289234.43	47289234.53	47289234.63	0.2644	0.1728
Mercury	124765-11-28 21:04 G	47290872.26	47290872.38	47290872.50	0.2691	0.0593
Mercury	124781-05-31 08:36 G	47296534.80	47296534.86	47296534.92	0.2640	0.2337
Mercury	124794-06-03 07:09 G	47301285.67	47301285.80	47301285.94	0.2642	0.0144
Mercury	124798-11-27 05:00 G	47302923.60	47302923.71	47302923.82	0.2693	0.1122
Mercury	124807-06-06 06:12 G	47306036.69	47306036.76	47306036.83	0.2644	0.2199
Mercury	124811-11-30 02:21 G	47307674.49	47307674.60	47307674.71	0.2691	0.1035
Mercury	124827-06-01 14:07 G	47313337.00	47313337.09	47313337.18	0.2640	0.1886
Mercury	124840-06-03 12:40 G	47318087.90	47318088.03	47318088.16	0.2642	0.0351
Mercury	124844-11-27 10:16 G	47319725.81	47319725.93	47319726.05	0.2693	0.0671
Venus	124851-11-13 02:36 G	47322267.45	47322267.61	47322267.76	0.2705	0.0399
Mercury	124857-11-30 07:38 G	47324476.72	47324476.82	47324476.92	0.2691	0.1471
Mercury	124873-06-01 19:38 G	47330139.21	47330139.32	47330139.43	0.2640	0.1420
Mercury	124877-11-25 18:12 G	47331777.20	47331777.26	47331777.31	0.2695	0.2421
Mercury	124886-06-04 18:12 G	47334890.14	47334890.26	47334890.39	0.2642	0.0826
Mercury	124890-11-28 15:33 G	47336528.03	47336528.15	47336528.28	0.2693	0.0235
Mercury	124903-12-02 12:55 G	47341278.95	47341279.04	47341279.12	0.2690	0.1909

Mercury	124919-06-04 00:55 G	47346941.42	47346941.54	47346941.67	0.2640	0.0963
Mercury	124923-11-27 23:28 G	47348579.40	47348579.48	47348579.56	0.2695	0.1961
Mercury	124932-06-05 23:43 G	47351692.38	47351692.49	47351692.61	0.2643	0.1304
Mercury	124936-11-29 21:04 G	47353330.25	47353330.38	47353330.50	0.2692	0.0242
Mercury	124949-12-02 18:12 G	47358081.20	47358081.26	47358081.32	0.2690	0.2352
Venus	124957-05-19 03:33 G	47360805.49	47360805.65	47360805.80	0.2628	0.0865
Mercury	124965-06-04 06:26 G	47363743.64	47363743.77	47363743.90	0.2641	0.0504
Mercury	124969-11-28 04:45 G	47365381.60	47365381.70	47365381.81	0.2694	0.1502
Mercury	124978-06-07 05:14 G	47368494.62	47368494.72	47368494.82	0.2643	0.1776
Mercury	124982-12-01 02:21 G	47370132.48	47370132.60	47370132.72	0.2692	0.0681
Mercury	124998-06-02 13:24 G	47375794.99	47375795.06	47375795.13	0.2639	0.2254